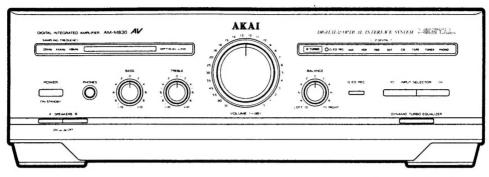
AKAI SERVICE MANUAL



MODEL AM-M830

DIGITAL INTEGRATED AMPLIFIER

MODEL AM-M630 MODEL AM-M830

SPECIFICATIONS

AM-M830	AM-M630
54 W x 2 (6 ohms, 40 Hz to 20 kHz, THD 0.5 %)	42 W x 2 (6 ohms, 40 Hz to 20 kHz, THD 0.5 %)
	50 W x 2 (6 ohms)
, ,	65 W x 2 (6 ohms)
	220 W
	750 W
	10 Hz to 50 kHz (THD 0.1 %)
	0.06 % (1 kHz)
	55 mV (1 kHz)
·	10 Hz to 100 kHz (-1.5 dB, -6.0 dB)
10 1/2 to 100 kitz (1.5 db, 0.0 db)	10 112 to 100 kHz (=1.5 db, =0.0 db)
±8.0 dB (10 kHz)	±8.0 dB (10 kHz)
	®8.0 dB (100 Hz)
10.0 db (100 112)	©6.0 dB (100 H2)
73 dB	72 dB
	72 0B 87 dB
	0.5 mV
	60 dB (1 kHz)
19.3	20
6 to 16 above	010.1
	6 to 16 ohms
12 to 16 onms	_
0 1 / / / / /	
·	2 mV / 47 kohms
	180 mV / 47 kohms
	180 mV / 1 kohms
	44.1 KHz
	4 fs / 16 bit
18 bit / 2 DAC	16 bit / 2 DAC
	-14 to -23 dBm
0.5 Vp-p / 75 ohms	
20 Hz to 20 kHz ± 0.5 dB	20 Hz to 20 kHz ± 0.5 dB
95 dB	93 dB
0.07 % (1 kHz, 20 kHz LPF)	0.04 % (1 kHz, 20 kHz LPF)
AC 220 V-230 V, 50 Hz for Europe except UK	AC 220 V-230 V, 50 Hz for Europe except UK
AC 240 V, 50Hz for UK and Australia	AC 240 V, 50Hz for UK and Australia
AC 110 /120 / 220 / 240 V, 50 / 60 Hz convertible for	AC 110 /120 / 220 / 240 V, 50 / 60 Hz convertible for
ather according	other countries.
other countries.	
other countries. 360 (W) x 117 (H) x 310 (D) mm	360 (W) x 117 (H) x 310 (D) mm
	95 dB 0.07 % (1 kHz, 20 kHz LPF) AC 220 V-230 V, 50 Hz for Europe except UK

^{*} For improvement purposes, specifications and design are subject to change without notice.

SAFETY INSTRUCTIONS

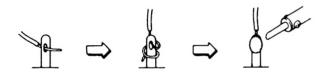
PRECAUTIONS DURING SERVICING

- 1. Parts indentified by the ! (*) symbol are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste

★ INFORMATION

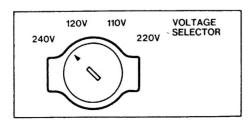
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	principal Destinations	
В	UK	
E	Europe (except UK)	
S	Australia	
V	Germany	
U	Universal Area	
Y*	Custom version	

VOLTAGE CONVERSION (U model only)

Before connecting the power cord, set the VOLTAGE SE-LECTOR located on the rear panel so that the correct voltage for your area is indicated



PRECAUTION BEFORE / AFTER REPAIRING THE UNIT

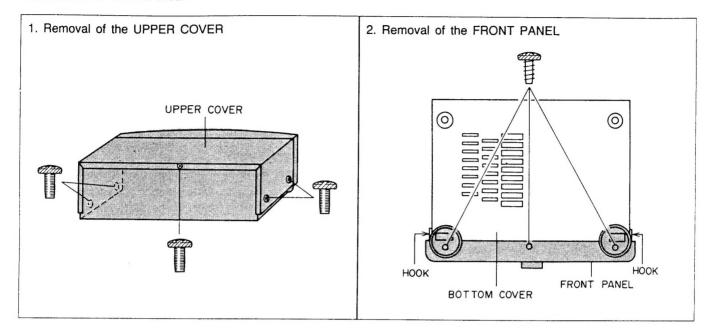
[ABOUT THE POWER SUPPLY]

Power supply of the AM-M630/M830 is controlled by the tuner. Therefore when repair of the AM-M630/M830 is necessary, repair should be made together with the tuner. To repair the AM-M630/M830 without tuner, use the following procedure.

- 1) While pushing the G.E REC button, press the POWER button to turn the power of the AM-M630/M830 on.
- To turn off the power of the AM-M630/M830, the AC power cord must be disconnected.

I. DISASSEMBLY

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.



II. PRINCIPAL PARTS LOCATION

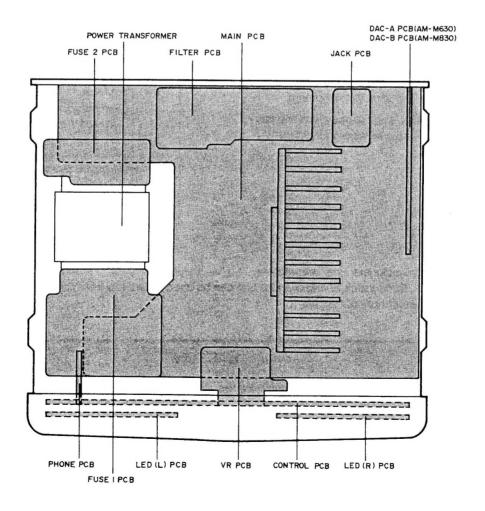


Fig. 2-1 Top view

ATTENTION

- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1 2 3 4 <u>5</u>	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895	HEAD BASE BLOCK HEAD R/P PR4-8FU C PAN20×03STL CMT BID20×08STL CMT SP CS ANGLE ADJUST
	SP (S	Service Parts) Classification
	——— This	number corresponds with th

ds with the individ ual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1 IC2 C1A C1B C1C X1	[A]: AAL (U.S [B]: BEAB (E [C]: CSA (Ca [E]: CEE (Eu [J]: JPN (Ja	England) [U]:U/T (Universa Area) anada) urope) [V]:VDE (W. Germany)
These reference symbols correspond with component symbols in the Schematic Diagrams.		

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

 Δ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

 Δ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AX-401055M	REMOCON RC-S630
2	*BT-401082J	TRANS POW A2073 BS [B,S] [AM-M630]
3	*BT-401081J	TRANS POW A2073 EV [E,V] [AM-M630]
4	*BT-401080J	TRANS POW A2073 U [U] [AM-M630]
5	*BT-401086J	TRANS POW A2074 BS [B,S] [AM-M830]
6	*BT-401085J	TRANS POW A2074 EV [E,V] [AM-M830]
7 .	*BT-401083J	TRANS POW A2074 U [U] [AM-M830]
8	ED-403757J	D LED SEL2913 D1,D2 AMBER
9	ED-382365J	D LED SLR-34VC3F RED
10	ED-394416J	D LED SLV-31VT3F RED
11	ED-307572	D SILICON H 1SS131
12	ED-366684	D SILICON H 1SS136 F05
13	ED-394453J	D SILICON H 1SS92T-77 T26
14	*ED-394708J	D SILICON RBA402 200/4.0A
		[AM-M630]
15	*ED-384278J	D SILICON RBV602 200/6.0A [AM-M830]
16	*ED-389840J	D SILICON 1SR139-100HS F10
17	ED-394924J	D ZENER H HZS5C1
18	ED-397234J	D ZENER H HZS6A2
19	ED-346558	D ZENER H HZ12B1L [U]
20	ED-346627	D ZENER H HZ33 2
21	ED-346530	D ZENER H HZ6C3L
22	ED-346604	D ZENER H HZ7 B2
23	ED-346540	D ZENER H HZ9B1L
24	*EF-601301	FUSE SEMKO T 250V 2.00A
		[U] FUSE SEMKO T 250V 2.50A
25	*EF-623125	[AM-M630] FUSE SEMKO T 250V 3.15A
26	*EF-691007	[AM-M830] FUSE SEMKO T 250V 4.00A
27	*EF-690996	FUSE SEMKO T 250V 400MA
28	*EF-668474	FUSE SEMKO T 250V 400MA
29	*EF-601942	FUSE SEMKO T 250V 800MA
30	*EF-258344	IC BA15218
31	EI-367572	
32	EI-382660J	IC BA15218-DX
33	EI-373980	IC BA15218N
34	EI-400942J	IC LC6520C-4649 FX2AMP1
35	EI-401087J	IC LC78820
36	EI-393323J	IC M5218AL-771
37	EI-401056J	IC PD0029
38	EI-390594J	IC PD0052
39	EI-403229J	IC PD0060
40	*EI-358554	IC STK4152II
44	*EI-366695	[AM-M630] IC STK4172II
41	本口-300093	[AM-M830]
40	EI-302233	IC TC4051BP
42	EI-332259	IC TC4057BP
43	EI-332239	[AM-M830]
	EL 200573	IC TC4053BP
44	EI-200573	IC TC74HCU04AP
45	EI-360040J1 EI-394518J	IC UPD6376CX
46		OSC CE KBR-4.19M 4.19MHZ
47	EI-719635 EJ-394459J	SOCKET OPTICAL GP1F32R
48 49	*EQ-394450J	RELAY POW DG12D1-O(M) 12V
50	*ER-200746	[U] R FUSE H ERD2FC 1/4W 1000G
51	*ER-332225	B FUSE H S10 ERD2FC 1/4W 56R0G
52	*ER-331188	R FUSE H S10 ERD2FC 1/4W 8R2J
53	ES-394512J	SW PUSH SPEA12 02-02N
		[AM-M830]
54	*ES-349070	SW SELECTOR YKS11-0002 02-4
55	ES-394736J	[U] [SW901] SW TACT SOA-133HS

Ref.No.	Part No.	Description
56	ET-356336	TR DTA114ES [U]
57 58 59	ET-363953 ET-369248 ET-373382	TH DTA114TS TR DTA114YS TR DTA143ZS
60 61	ET-354365 ET-373485	TR DTC114YS TR DTC123JS
62 63	ET-354371 ET-373392	TR DTC124ES TR DTC124XS
64 65	ET-354364 ET-373391	TR DTC143TS TR DTC143ZS TR DTC144ES
66 67 68	ET-354414 ET-749377 ET-394555J	TR 2SA1048 GR TR 2SA1515 Q.R
69	ET-366365	TR 2SB1185 E,F [U]
70 71	ET-373210 ET-749375	TR 2SB1187 E,F TR 2SC2458 GR
72 73	ET-380685J ET-373025 ET-401091J	TR 2SD1761 E,F,G TR 2SD1944 J1,J2,K TR 2SD2144S U,V,W T05
74 75 76 77	EV-401089J EV-401088J EV-400827J	VR ROTARY RK11K113 L=30 SP104 VR ROTARY RK14K1230 L30 B103X2 VR SPL RK16Y12MA B104X2

2. P.C BC	DARD		Ref.No.	Part No.	Description
			D1	ED-394453J	D SILICON H 1SS92T-77 T26
Ref.No.	Part No	o.Description	D2 D101	ED-346604 *ED-389840J	D ZENER H HZ7 B2 D SILICON 1SR139-100HS F10
1A	BA-A2068A020G	PC(#) MAIN AMP BLK AM-M630(U)	D102	*ED-389840J	D SILICON 1SR139-100HS F10
1B	BA-A2068A020H	[U] [AM-M630] PC(#) MAIN AMP BLK AM-M630(E)	D103	*ED-389840J	D SILICON 1SR139-100HS F10
10	B/1 /12000/102011	[E] [AM-M630]	D104 D105	*ED-389840J ED-346540	D SILICON 1SR139-100HS F10 D ZENER H HZ9B1L
1C	BA-A2068A020J	PC(#) MAIN AMP BLK AM-M630(V)	D106	ED-346540	D ZENER H HZ9B1L
1D	BA-420684020K	[V] [AM-M630] PC(#) MAIN AMP BLK AM-M830(U)	D109	*ED-389840J	D SILICON 1SR139-100HS F10
10	BA-AZOOOAOZON	[U] [AM-M830]	D110 D111	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
1E	BA-A2068A020L	PC(#) MAIN AMP BLK AM-M830(E)	D112	*ED-389840J	D SILICON 1SR139-100HS F10
1F	BA-420684020M	[E] [AM-M830] PC(#) MAIN AMP BLK AM-M830(V)	D113	ED-346530	D ZENER H HZ6C3L
11	DA-AZOOOAOZOW	[V] [AM-M830]	D115 D116	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
2A	BA-A2068A040C	PC DAC-A BLK AM-M630(U)	D117	*ED-389840J	D SILICON 1SR139-100HS F10
2B	BA-A2068A040D	[U] [AM-M630] PC DAC-A BLK AM-M630(V)	D118	*ED-389840J	D SILICON 1SR139-100HS F10
20	BA AZOOOAO40B	[V] [AM-M630]	D119 D120	*ED-389840J *ED-389840J	D SILICON 1SR139-100HS F10 D SILICON 1SR139-100HS F10
2C	BA-A2074A040A	PC DAC-B BLK AM-M830(U)	D121	ED-346627	D ZENER H HZ33 2
2D	BA-420744040B	[U] [AM-M830] PC DAC-B BLK AM-M830(V)	D122	ED-346540	D ZENER H HZ9B1L
20	BA-A2074A040B	[V] [AM-M830]	D123A	*ED-394708J	D SILICON RBA402 200/4.0A [AM-M630]
3A	BA-A2073A030A	PC(#)CONTROL BLK AM-M630(U)	D123B	*ED-384278J	D SILICON RBV602 200/6.0A
3B	BA-A2073A030B	[U] [AM-M630] PC(#)CONTROL BLK AM-M630(V)		ED 0.10500	[AM-M830]
30	DA A207 0A000B	[V] [AM-M630]	D124 D125	ED-346530 ED-346540	D ZENER H HZ6C3L D ZENER H HZ9B1L
3C	BA-A2073A030C	PC(#)CONTROL BLK AM-M830(U)	F101A	*EF-623125	FUSE SEMKO T 250V 2.50A
3D	BA-A2073A030D	[U] [AM-M830] PC(#)CONTROL BLK AM-M830(V)		. == 001007	[AM-M630]
30	BA AZOTONOGOD	[V] [AM-M830]	F101B	*EF-691007	FUSE SEMKO T 250V 3.15A [AM-M830]
			FR1	*ER-200746	R FUSE H ERD2FC 1/4W 1000G
PC (#) M	MAIN AMP BLK	CONSISTS OF FOLLOWING P.C	FR2 FR101	*ER-200746 *ER-331188	R FUSE H ERD2FC 1/4W 1000G R FUSE H S10 ERD2FC 1/4W 8R2J
BOARD.			FR102	*ER-332225	R FUSE H S10 ERD2FC 1/4W 56R0G
	MP P.C BOARD		IC1	EI-382660J	IC BA15218-DX
	P.C BOARD		IC2 IC3	EI-302233 EI-302233	IC TC4051BP IC TC4051BP
	R P.C BOARD 1 P.C BOARD		IC4	EI-200573	IC TC4051BP
	2 P.C BOARD		IC5	EI-200573	IC TC4053BP
			IC6	EI-367572	IC BA15218 IC BA15218
PC (#) C BOARD.	CONTROL BLK	CONSISTS OF FOLLOWING P.C	IC7	El-367572	[AM-M830]
 CONTR 	ROL P.C BOARD)	IC8	El-332259	IC TC4052BP [AM-M830]
	BOARD) P.C BOARD		IC101A	*EI-358554	IC STK4152II
,) P.C BOARD		IC101B	*EI-366695	[AM-M630] IC STK4172II
• PHONE	É P.C BOARD		101015	. 2. 00000	[AM-M830]
			J1A	EJ-394438J	PIN J YKC21-3050 SEALED 6P [U,E]
			J1B	EJ-394437J	PIN J YKC21-3036 6P [V]
			J2A	EJ-394436J	PIN J YKC21-3034 4P [AM-M630]
			J2B	EJ-394437J	PIN J YKC21-3036 6P [AM-M830]
			J3	EJ-394819J	SOCKET 52303-1511 15P
			J4 L101	EJ-394442J EO-394520J	SOCKET 52303-1211 12P COIL FIX 2 *0708-1197
			R110	ER-333023	R OMF H S20 FS 2W 100J
			R111	ER-333023	R OMF H S20 FS 2W 100J
			TM1A	EJ-349417	TERMINAL LEVER YKD21-0026 4P [AM-M630]
3. MAIN	AMP P.C BOA	ARD	TM1B	EJ-349401	TERMINAL LEVER YKD21-0027 8P [AM-M830]
			TR1	ET-401091J	TR 2SD2144S U,V,W T05
Ref.No.	Part No.	Description	TR2 TR4	ET-401091J ET-369248	TR 2SD2144S U,V,W T05 TR DTA114YS
C115A	EC-394535J	C EC V CUT SME 332M 40.0DC	TR5	ET-373392	TR DTC124XS
	E0 00 150 1 1	[AM-M630]	TR6	ET-354371	TR DTC124ES
C115B	EC-394534J	C EC V CUT SME 472M 50.0DC [AM-M830]	TR101 TR102	ET-354371 ET-380685J	TR DTC124ES TR 2SD1761 E,F,G
C116A	EC-394535J	C EC V CUT SME 332M 40.0DC	TR103	ET-373210	TR 2SB1187 E,F
	EO 0045011	[AM-M630]	TR104	ET-373025	TR 2SD1944 J1,J2,K
C116B	EC-394534J	C EC V CUT SME 472M 50.0DC [AM-M830]	TR105 TR106	ET-373210 ET-749377	TR 2SB1187 E,F TR 2SA1048 GR

4. DAC-A P.C BOARD (AM-M630)

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-397234J	D ZENER H HZS6A2
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
FL1	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
	2.1.0000000	[V]
FL2	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
		[V]
FL3	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL4	EH-395074J	[V] FILTER EMI FBA04HA600VB-00 T05
FL4	EH-3930743	[V]
IC1	El-390594J	IC PD0052
IC2	El-401056J	IC PD0029
IC3	El-394518J	IC UPD6376CX
IC4	El-393323J	IC M5218AL-771
J1	EJ-394459J	SOCKET OPTICAL GP1F32R
TR1	ET-749375	TR 2SC2458 GR
TR2	ET-373392	TR DTC124XS
TR3	ET-369248	TR DTA114YS
TR4	ET-373391	TR DTC143ZS
TR5	ET-369248	TR DTA114YS
TR6	ET-373391	TR DTC143ZS
TR7	ET-394555J	TR 2SA1515 Q,R
TR8	ET-749375	TR 2SC2458 GR
TR9	ET-749375	TR 2SC2458 GR
TR10	ET-749375	TR 2SC2458 GR
TR11	ET-749375	TR 2SC2458 GR
TR12	ET-373485	TR DTC123JS
TR13	ET-354414	TR DTC144ES
TR14	ET-373485	TR DTC123JS

5. DAC-B P.C BOARD (AM-M830)

Ref.No.	Part No.	Description
D201	ED-307572	D SILICON H 1SS131
D301	ED-394924J	D ZENER H HZS5C1
D481	ED-307572	D SILICON H 1SS131
D482	ED-307572	D SILICON H 1SS131
FL601	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL602	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL603	EH-386589J	FILTER EMI FBA04HA600AB-00 T26
FL604	EH-395074J	FILTER EMI FBA04HA600VB-00 T05
		[V]
IC101	EI-360040J1	IC TC74HCU04AP
IC201	El-390594J	IC PD0052
IC301	El-403229J	IC PD0060
IC302	El-401087J	IC LC78820
IC401	El-393323J	IC M5218AL-771
IC402	El-393323J	IC M5218AL-771
J101	EJ-394459J	SOCKET OPTICAL GP1F32R
J102A	EJ-390593J	PIN J *A2076-2 3P [U]
J102B	EJ-394461J	PIN J *A2076-1 3P
T	DT 000004	[V]
T101	BT-368261	TRANS PULSE TC-1027-04
TR301	ET-354414	TR DTC144ES
TR401	ET-354364	TR DTC143TS
TR402	ET-749375	TR 2SC2458 GR
TR451	ET-354364	TR DTC143TS
TR452	ET-749375	TR 2SC2458 GR
TR481	ET-354365	TR DTC114YS
TR482	ET-373382	TR DTA143ZS
TR483	ET-373392	TR DTC124XS
TR484	ET-369248	TR DTA114YS

6. CONTROL P.C BOARD

Ref.No.	Part No.	Description
D181	ED-307572	D SILICON H 1SS131
D182	ED-307572	D SILICON H 1SS131
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-307572	D SILICON H 1SS131
IC101	EI-373980	IC BA15218N
IC102	EI-373980	IC BA15218N
IC201	EI-400942J	IC LC6520C-4649 FX2AMP1
SW301	ES-394512J	SW PUSH SPEA12 02-02N
		[AM-M830]
SW302	ES-394512J	SW PUSH SPEA12 02-02N
		[AM-M830]
TR101	ET-401091J	TR 2SD2144S U,V,W T05
TR151	ET-401091J	TR 2SD2144S U,V,W T05
TR181	ET-354365	TR DTC114YS
TR182	ET-373392	TR DTC124XS
TR183	ET-369248	TR DTA114YS
TR201	ET-354365	TR DTC114YS
TR202	ET-354365	TR DTC114YS
TR203	ET-354365	TR DTC114YS
TR204	ET-749377	TR 2SA1048 GR
TR205	ET-363953	TR DTA114TS
TR206	ET-363953	TR DTA114TS
TR207	ET-363953	TR DTA114TS
TR208	ET-363953	TR DTA114TS
TR209	ET-749375	TR 2SC2458 GR
TR210	ET-373391	TR DTC143ZS
		[AM-M830]
TR211	ET-354365	TR DTC114YS
TR212	ET-354414	TR DTC144ES
TS201	ES-394736J	SW TACT SOA-133HS
TS202	ES-394736J	SW TACT SOA-133HS
TS203	ES-394736J	SW TACT SOA-133HS
TS204	ES-394736J	SW TACT SOA-133HS
TS205	ES-394736J	SW TACT SOA-133HS
		[AM-M830]
VR101	EV-401088J	VR ROTARY RK14K1230 L30 B103X2
VR102	EV-401088J	VR ROTARY RK14K1230 L30 B103X2
VR103	EV-401089J	VR ROTARY RK11K113 L=30 SP104
X201	El-719635	OSC CE KBR-4.19M 4.19MHZ

7. VR P.C BOARD

Ref.No.	Part No.	Description
D401	ED-366684	D SILICON H 1SS136 F05
TR401	ET-749377	TR 2SA1048 GR
TR402	ET-749377	TR 2SA1048 GR
TR403	ET-749375	TR 2SC2458 GR
TR404	ET-749375	TR 2SC2458 GR
VR401	EV-400827J	VR SPL RK16Y12MA B104X2

8. LED (L) P.C BOARD

Ref.No.	Part No.	Description
D501	ED-394416J	D LED SLV-31VT3F RED
D502	ED-394416J	D LED SLV-31VT3F RED
D503	ED-394416J	D LED SLV-31VT3F RED
D504	ED-394416J	D LED SLV-31VT3F RED
D505	ED-403757J	D LED SEL2913 D1,D2 AMBER
D506	ED-403757J	D LED SEL2913 D1,D2 AMBER
D507	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D508	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D509	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]

9. LED (R) P.C BOARD

Ref.No.	Part No.	Description
D601	ED-403757J	D LED SEL2913 D1,D2 AMBER [AM-M830]
D602	ED-403757J	D LED SEL2913 D1,D2 AMBER [AM-M830]
D603	ED-382365J	D LED SLR-34VC3F RED
D604	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D605	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D606	ED-403757J	D LED SEL2913 D1,D2 AMBER
		[AM-M830]
D607	ED-403757J	D LED SEL2913 D1,D2 AMBER
D608	ED-403757J	D LED SEL2913 D1,D2 AMBER
D609	ED-403757J	D LED SEL2913 D1,D2 AMBER
D610	ED-403757J	D LED SEL2913 D1,D2 AMBER
D611	ED-403757J	D LED SEL2913 D1,D2 AMBER

10. PHONE P.C BOARD

Ref.No.	Part No.	Description
J701A	EJ-394455J	PHONE J 3P YKB21-5006 6.3 [AM-M630]
J701B	EJ-355011	PHONE J 3P YKB21-5010 6.3 [AM-M830]
R701 R751	ER-325843 ER-325843	R OMF H S15 FS 1W 391J R OMF H S15 FS 1W 391J

11. JACK P.C BOARD

Ref.No.	Part No.	Description
J201	EJ-394445J	SOCKET 52303-1411 14P

12. FILTER P.C BOARD

Ref.No.	Part No.	Description
C301	*EC-320548	C CE V F 103Z 250AC
D301	ED-346558	D ZENER H HZ12B1L
D302	ED-307572	[U] D SILICON H 1SS131
D303	ED-307572	[U] D SILICON H 1SS131
D304	ED-307572	[U] D SILICON H 1SS131
F301	*EF-601301	[U] FUSE SEMKO T 250V 2.00A
F302	*EF-601301	[U] FUSE SEMKO T 250V 2.00A
J301	*EJ-384277J	[U] SOCKET OUTLET M7037 2P
L301	*EO-338409	[U] COIL LF FKOB160MH02 250UH
RL301	*EQ-394450J	RELAY POW DG12D1-O(M) 12V
TR301	ET-356336	TR DTA114ES
TR302	ET-354371	TR DTC124ES [U]
TR303	ET-749375	TR 2SC2458 GR
TR304	ET-366365	[U] TR 2SB1185 E,F [U]

13. FUSE-1 P.C BOARD

Ref.No.	Part No.	Description
F401	*EF-690996	FUSE SEMKO T 250V 4.00A
F402	*EF-690996	FUSE SEMKO T 250V 4.00A

Ref.No.	Part No.	Description
F403	*EF-668474	FUSE SEMKO T 250V 400MA
F404	*EF-668474	FUSE SEMKO T 250V 400MA
F405	*EF-601942	FUSE SEMKO T 250V 630MA

14. FUSE-2 P.C BOARD

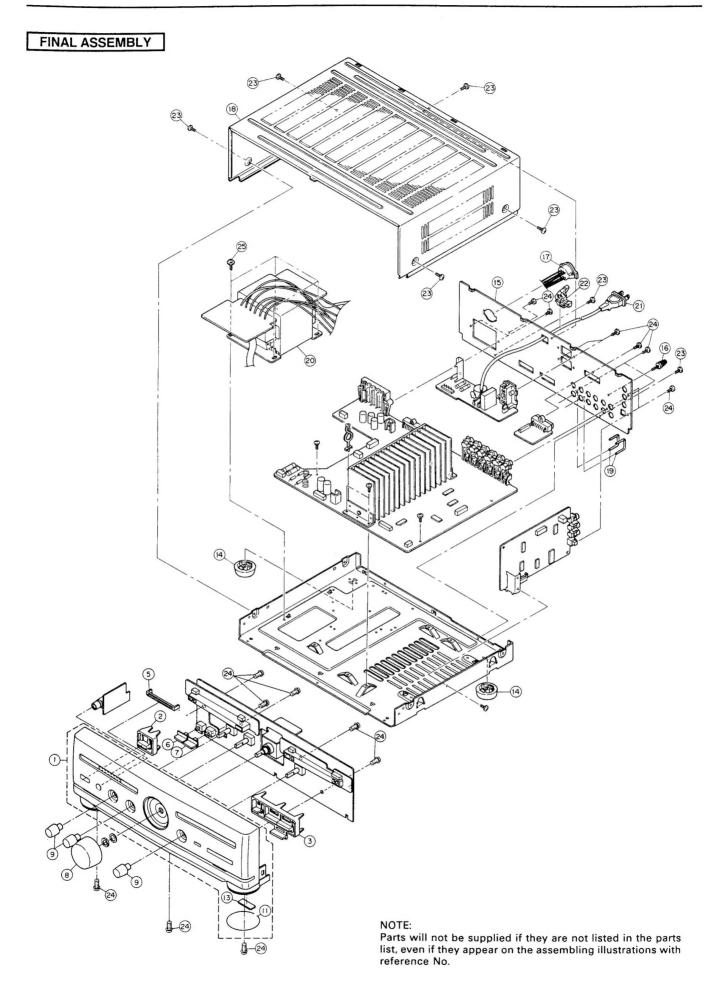
Ref.No.	Part No.	Description
F406	*EF-258344	FUSE SEMKO T 250V 800MA
F407	*EF-258344	FUSE SEMKO T 250V 800MA
F408	*EF-601301	FUSE SEMKO T 250V 2.00A

15. FINAL ASSEMBLY

Ref.No.	Part No.	Description
1A	BD-A2073A050A	PANEL FRONT BLK AM-M630-B
1B	BD-A2073A050B	PANEL FRONT BLK AM-M830-B
2	SK-401821M	BUTTON POWER
3A	SK-401822M	BUTTON OPERATION-A
		[AM-M630]
3B	SK-401823M	BUTTON OPERATION-B
		[AM-M830]
5	SE-394119M	LENS OPTICAL
6	SK-401824M	BUTTON SP(L)
		[AM-M830]
7	SK-401825M	BUTTON SP(R)
		[AM-M830]
8	SK-401829M	KNOB VR
9	SK-401830M	KNOB TONE
11	SZ-401762M	RING FOOT
13	SA-394136M	CUSHION FOOT
14	SA-394127M1	FOOT REAR
15A	SP-401812M	PANEL REAR AM-M630(U)
15B	SP-401813M	PANEL REAR AM-M630(E)
15C	SP-401814M	PANEL REAR AM-M630(V)
15D	SP-401816M	PANEL REAR AM-M630(B)
15E	SP-401817M	PANEL REAR AM-M830(U)
15F	SP-401818M	PANEL REAR AM-M830(E)
15G	SP-401819M	PANEL REAR AM-M830(V)
15H	SP-401820M	PANEL REAR AM-M830(B)
16	EJ-394538J	TERMINAL W/S 0033-208-0-00
17	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U] [SW901]
18	SP-394094M	COVER UPPER AM
19	EJ-394657J	PLUG SHORT-PIN CNT31-0074
20A	*BT-401080J	TRANS POW A2073 U
		[U] [AM-M630]
20B	*BT-401081J	TRANS POW A2073 EV
		[E,V] [AM-M630]
20C	*BT-401082J	TRANS POW A2073 BS
		[B,S] [AM-M630]
20D	*BT-401083J	TRANS POW A2074 U
		[U] [AM-M830]
20E	*BT-401085J	TRANS POW A2074 EV
		[E,V] [AM-M830]
20F	*BT-401086J	TRANS POW A2074 BS
		[B,S] [AM-M830]
21A	*EW-374894	AC CORD 2C VM-0129A,VFF U/T
		[U]
21B	*EW-347897	AC CORD 2 CORES VM0364,LCFL EV
21C	*EW-346249	[E,V] AC CORD 2 CORES LCFL2X0.75 B
210	↑EW-340249	[B]
21D	*EW-347898	AC CORD 2 CORES VM-0436,LCFL S
210	-1-247-047-030	[S]
22	*EZ-371605	BUSH CORD 2271
23	ZS-387983J	ST BID30X08STL BNI EARTH LOCK
24	ZS-331182	BT BID30X08STL BNI
25	ZS-346742	ST BID40X08STL CMT CUP

16. ACCESSARY

Ref.No.	Part No.	Description
1	AX-401055M	REMOCON RC-S630



NOTE

- PARTS LIST

ABBREVIATIONS (AMPLIFIER)

ABBREVIATION	EXPLANATION
Α	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
COM	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
ММ	Moving Magnet
PCB	Printed Circuit Board
R	Right
REG	REGulator
REC	RECord
TR	TRansistor
sw	SWitch
V.AMP	Voltage AMPlifier
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder

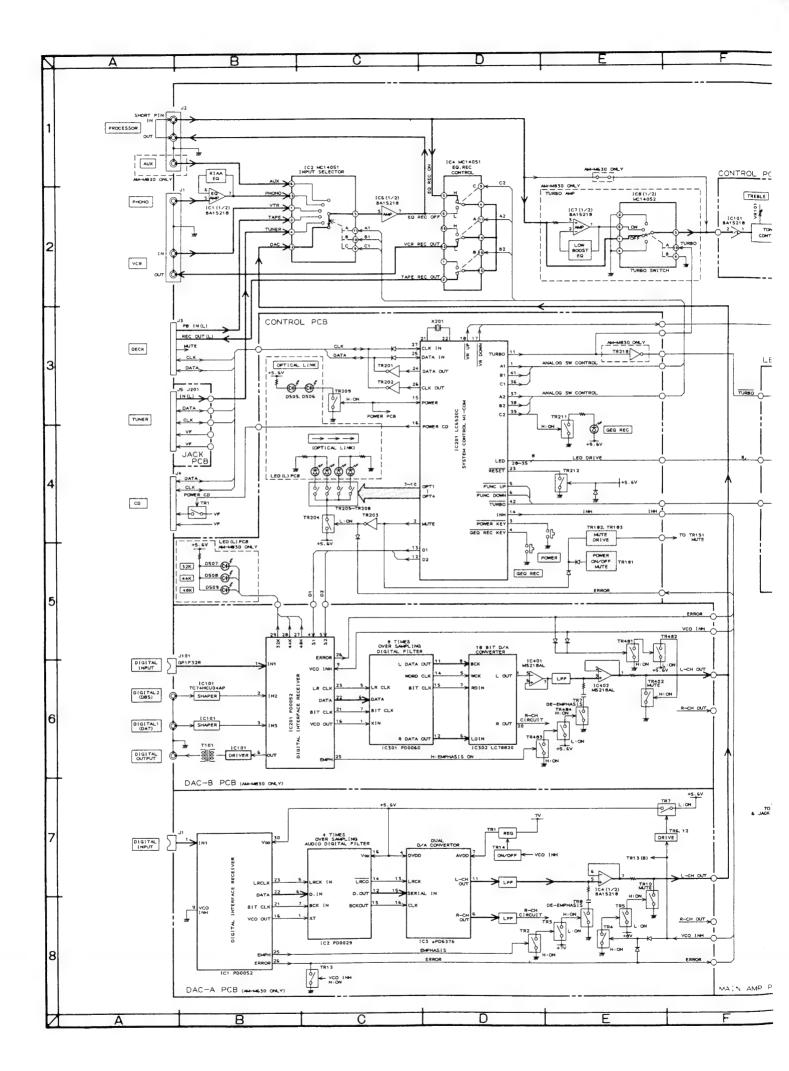
AKAI

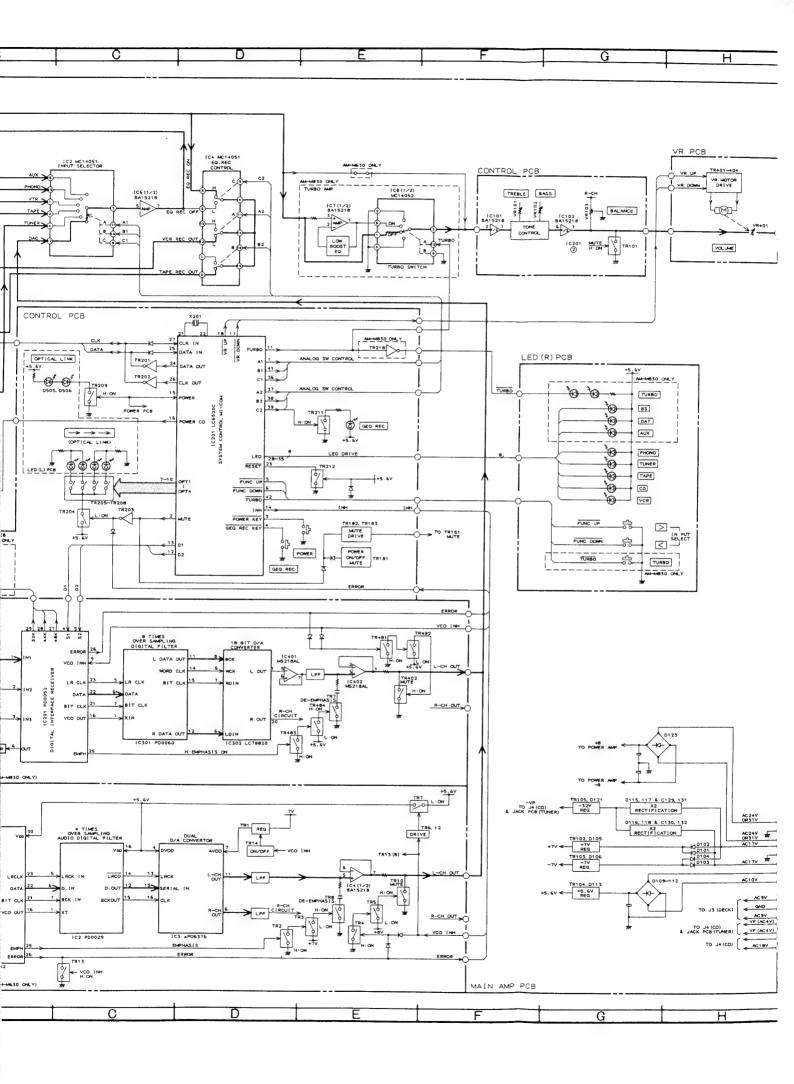
MODEL AM-M630 MODEL AM-M830

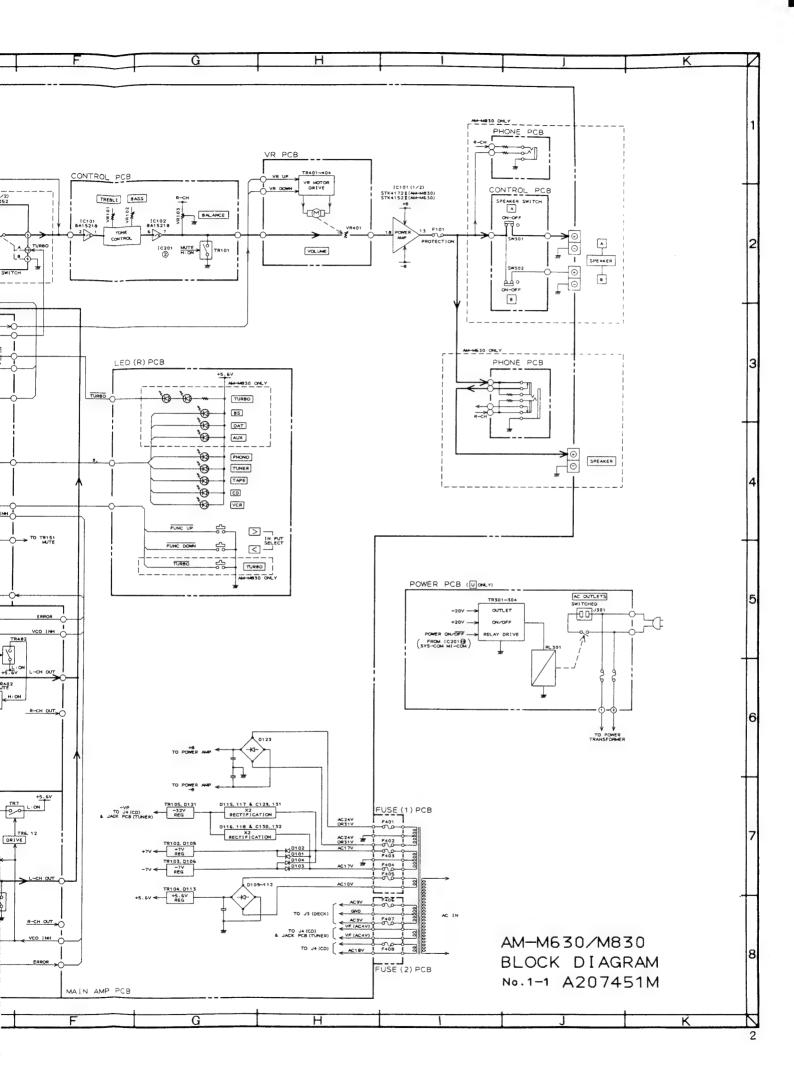
SCHEMATIC DIAGRAMS AND PC BOARDS

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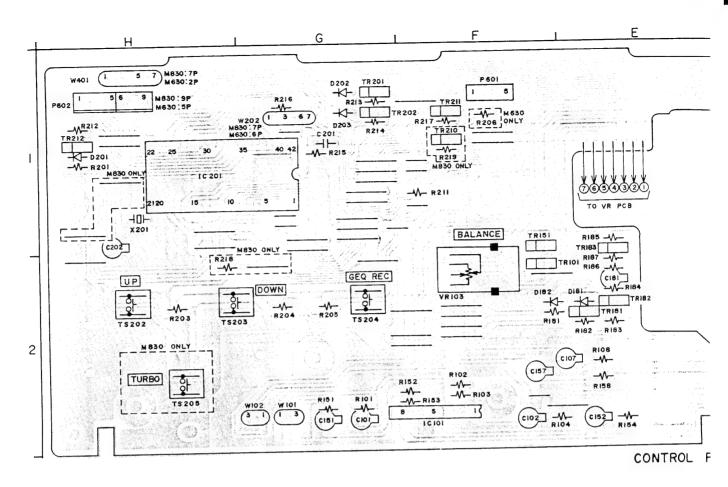
	BLOCK DIAGRAM	
2.	CONNECTION DIAGRAM	3
3.	MAIN SCHEMATIC DIAGRAM	4
	MAIN AND JACK PC BOARDS	
	CONTROL SCHEMATIC DIAGRAM	
	CONTROL AND OTHER PC BOARDS	
	AM-M630 DAC-A SCHEMATIC DIAGRAM	
	DAC-A PC BOARD	
	DAC-B PC BOARD	
	AM-M830 DAC-B SCHEMATIC DIAGRAM	
11.	INFORMATION OF ICs	12





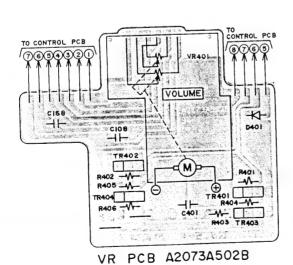


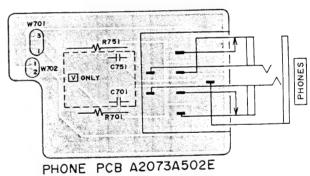
医内侧性皮肤 化二氯甲酚



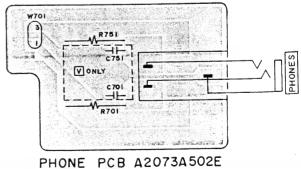
PRINCIPAL PARTS LOCATION

ICS	TRANSISTORS
IC101F	2 TR101F2
IC102D	,C2 TR151F2
IC201H	
	TR182E2
CONNECTORS	TR183E2
P501A	1 TR201
P502C	
P601F	
P602H	
W101	
W102	
W201D	
W202G	TRZU/
W301B	TRZUO
W302B	TRZU9
	1 1 2 1 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
W401H	TR211F1
	TR212H1

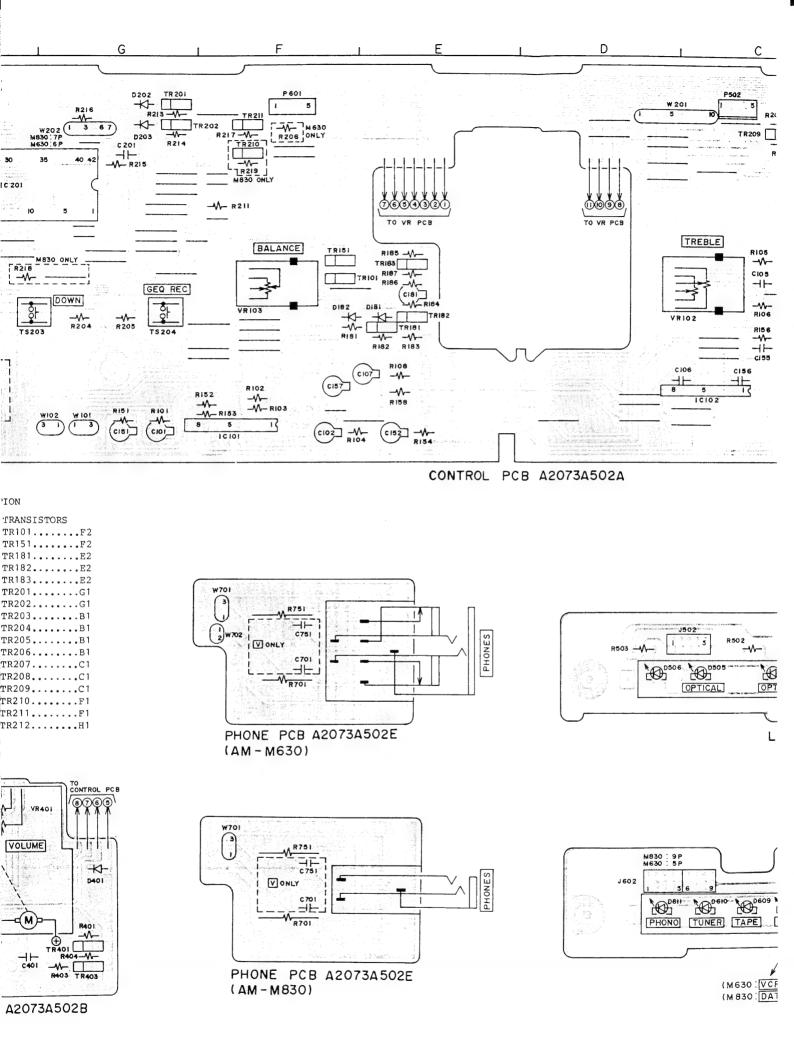


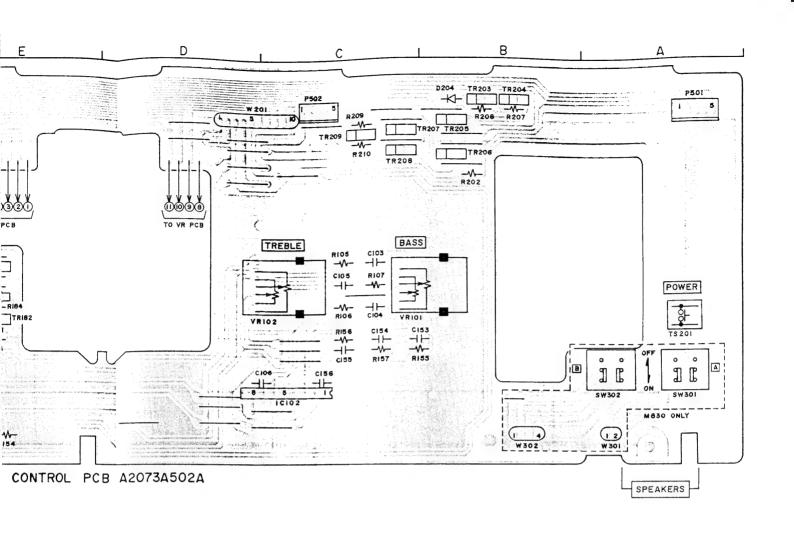


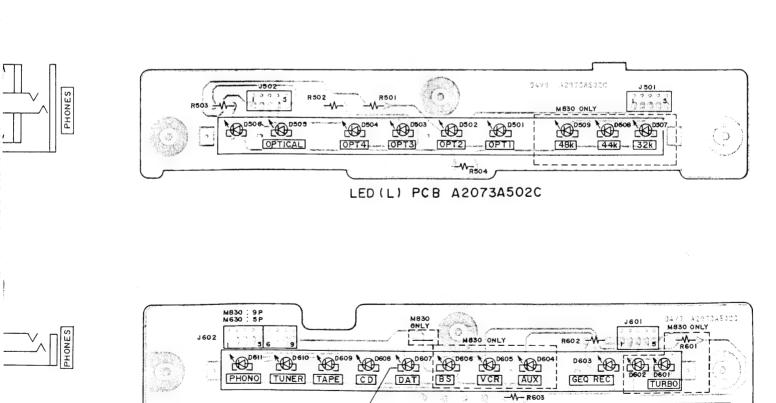
(AM-M630)



PHONE PCB A2073A502E (AM - M830)

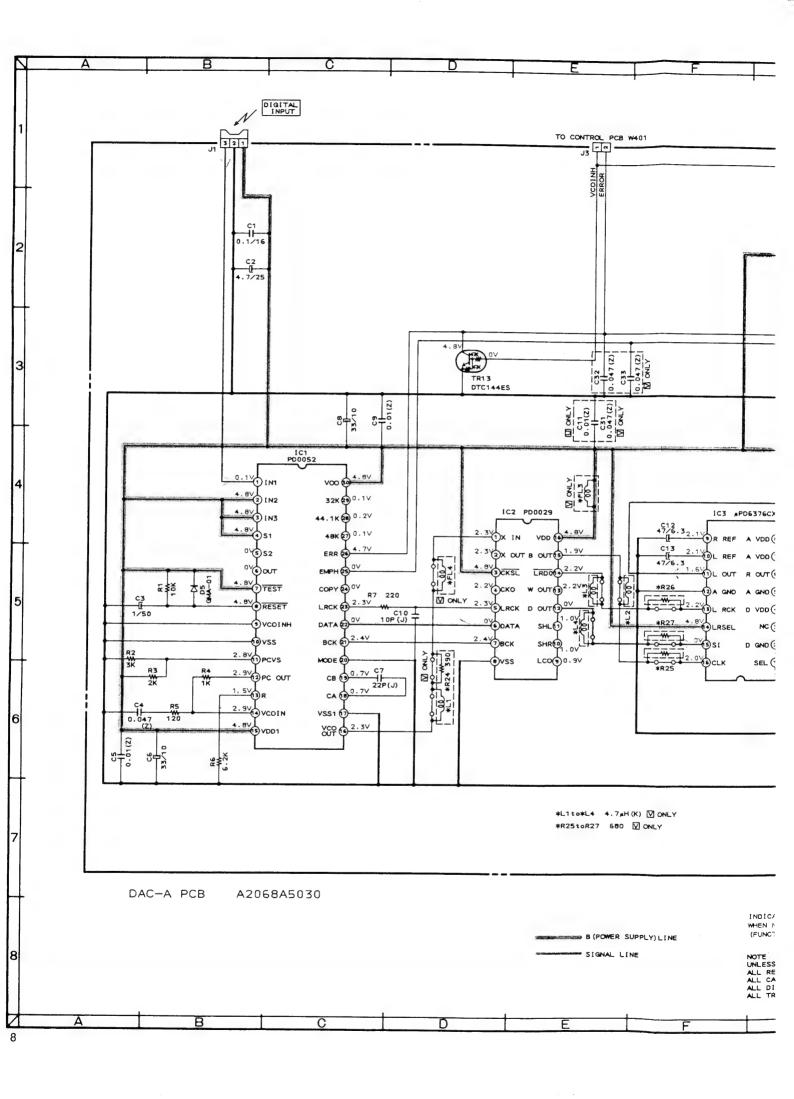


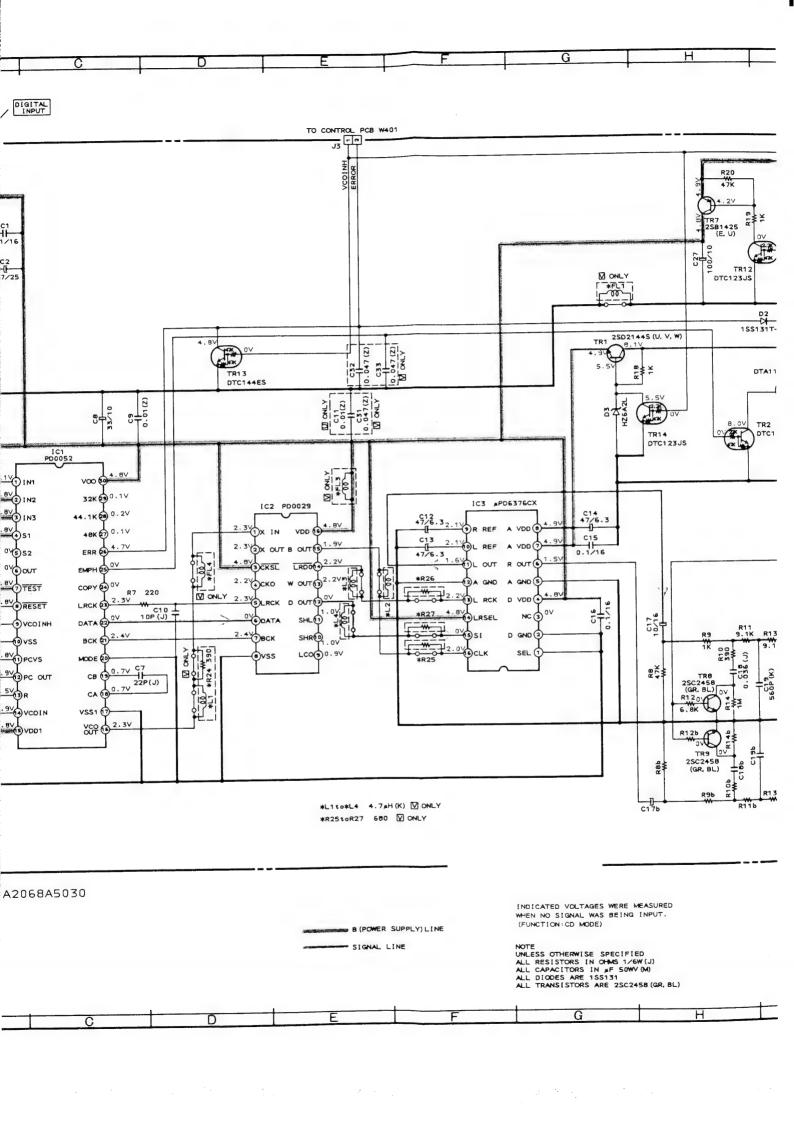


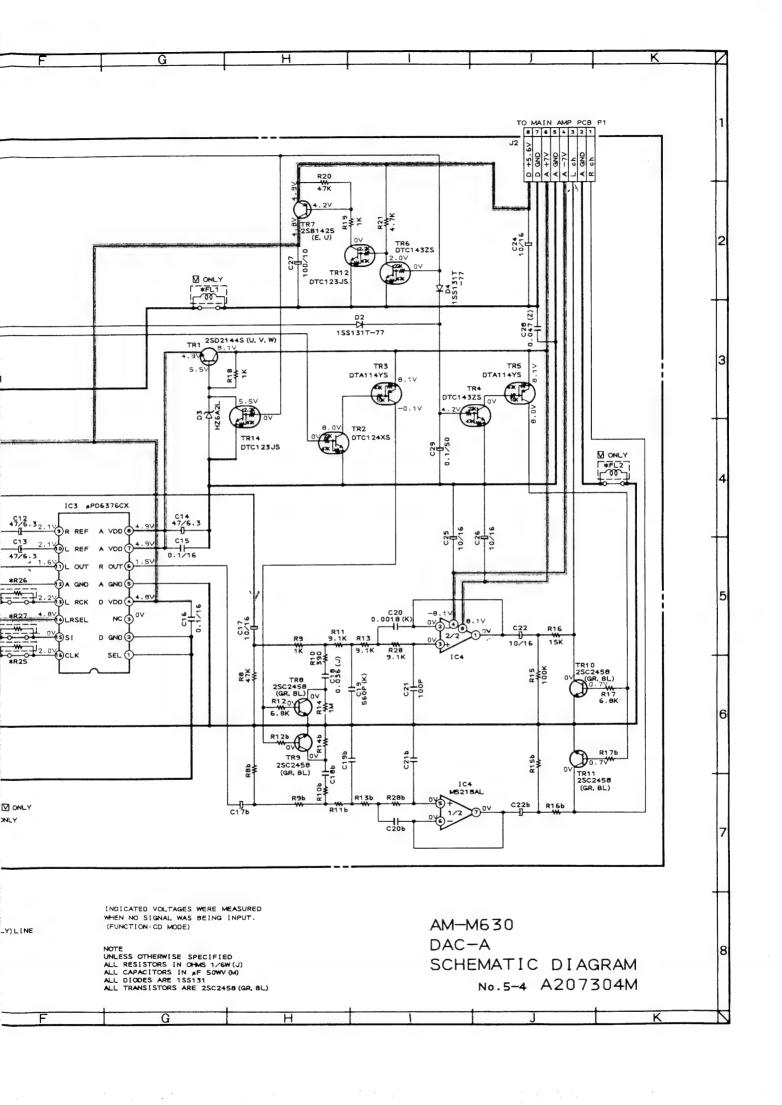


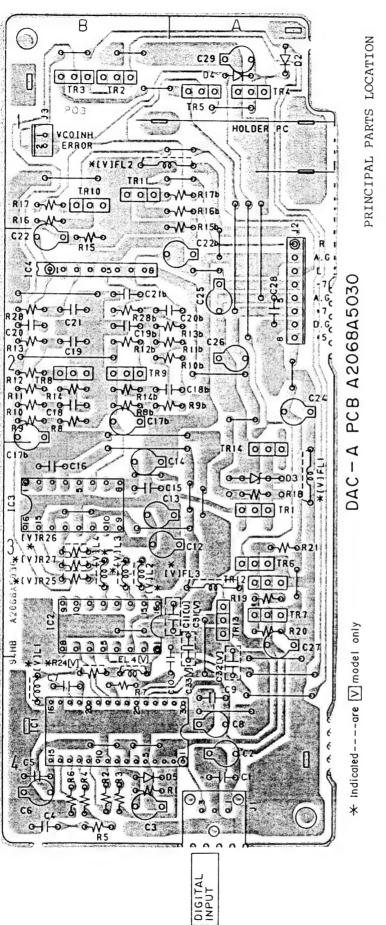
(M630:VCR)

LED (R) PCB A2073A502D

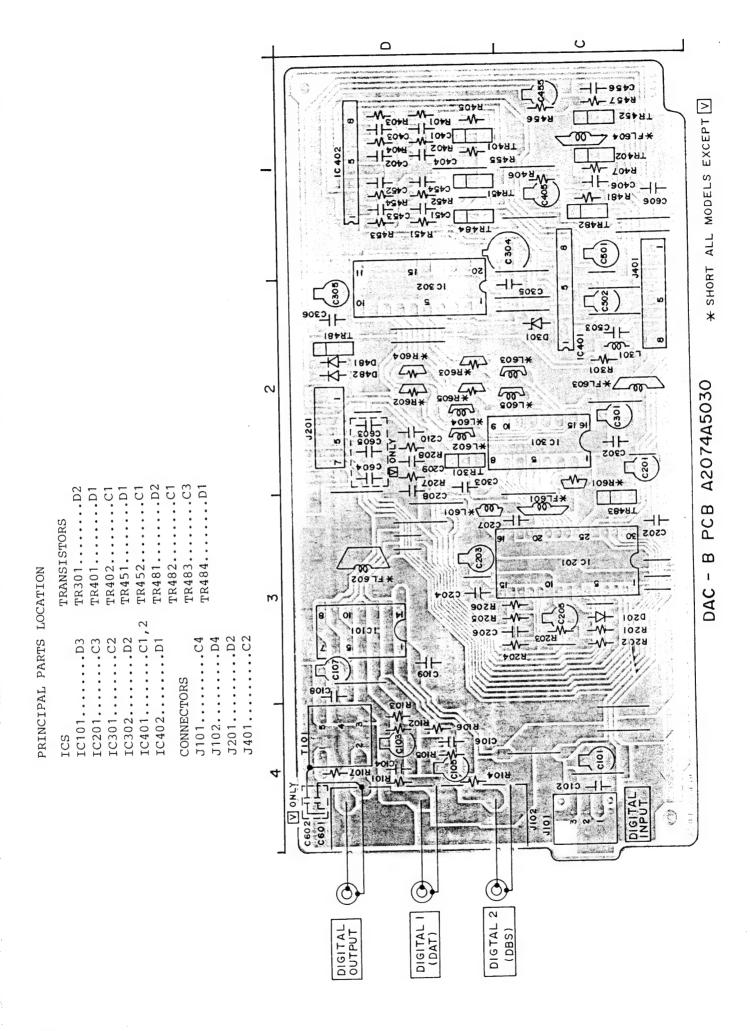


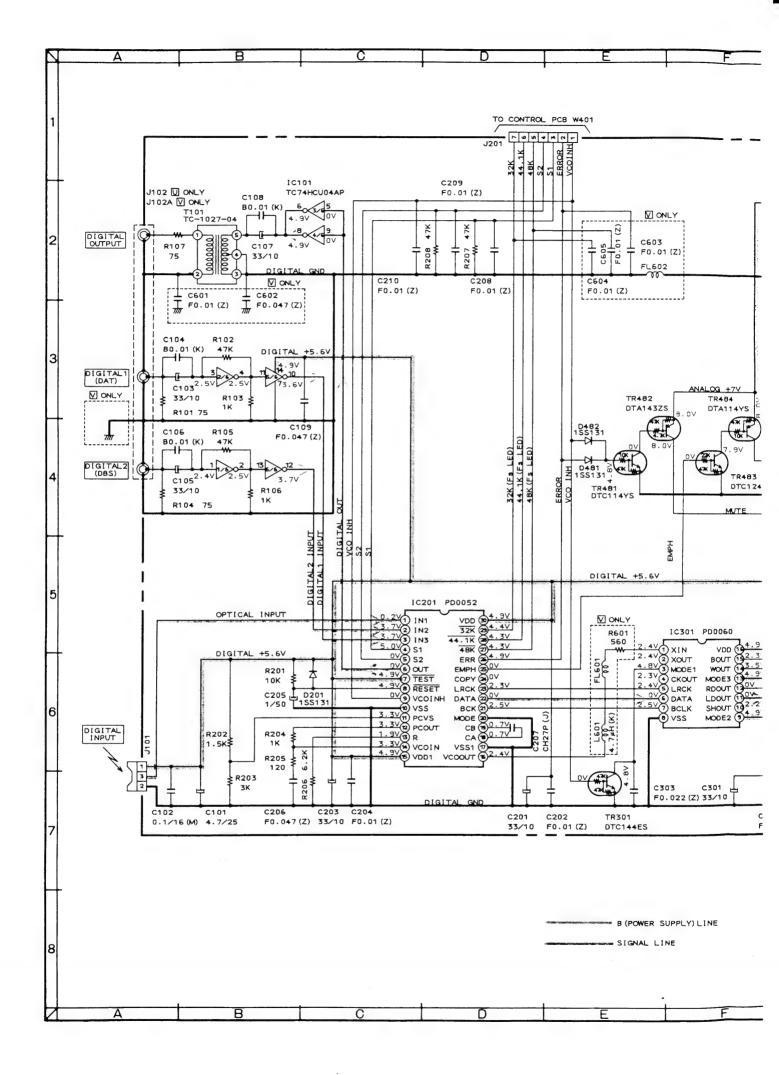


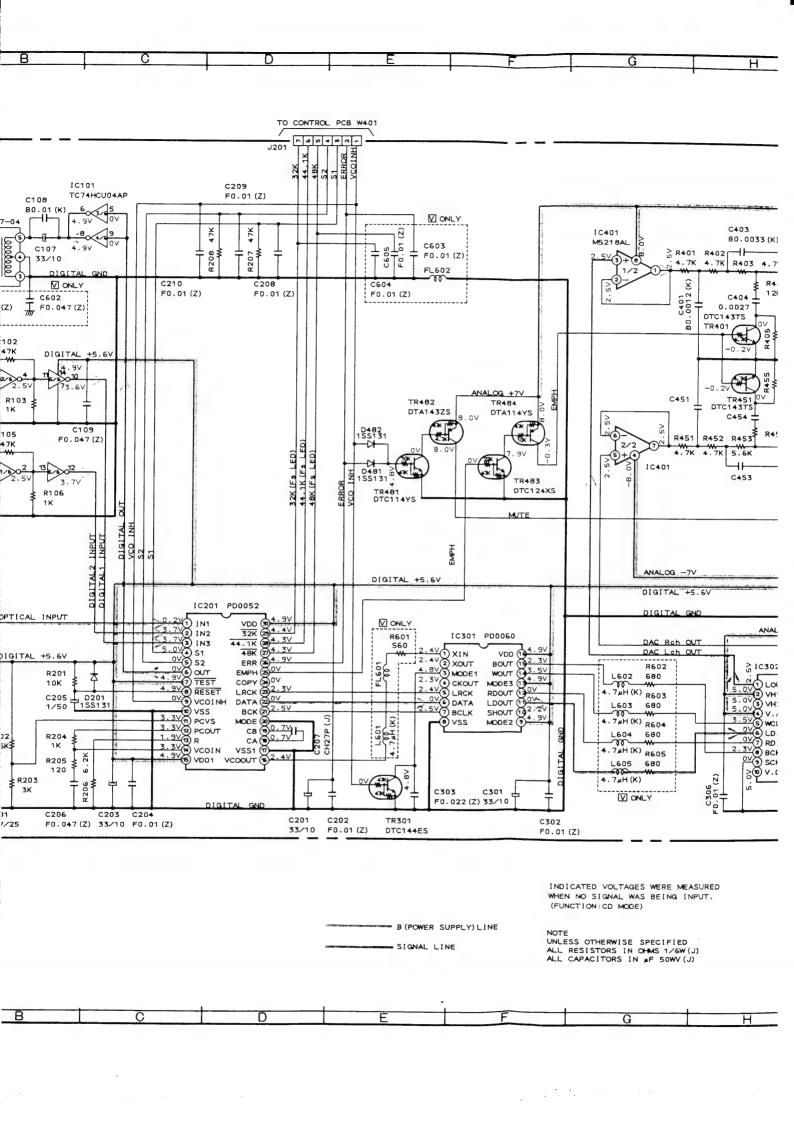


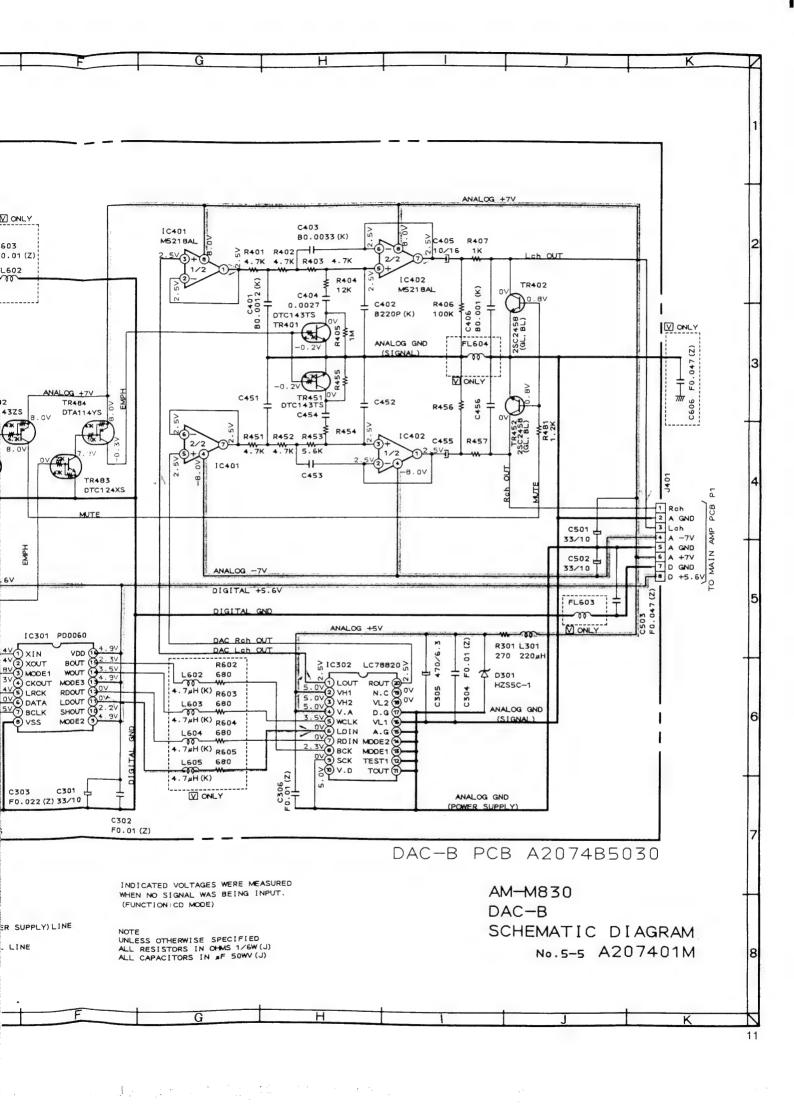


IC2.....B3 IC3.....B3 CONNECTORS IC1. ICS ...A3 TR8.....B2 TR1.....A3 ...A1 TR7....... ...B1B1 TR2.....B1 TR3.....B1 TR5......A1 TRANSISTORS TR6... TR8. TR10 TR11. TR4.

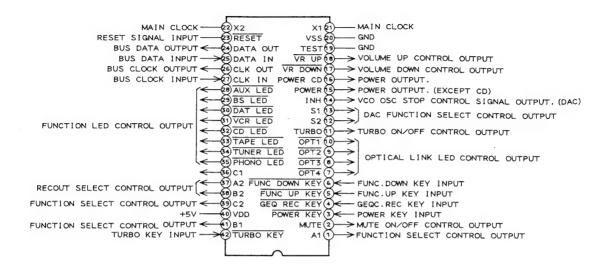








LC6520-4649 (MI-CON)



LC78820 (18 BIT D / A CONVERTER)

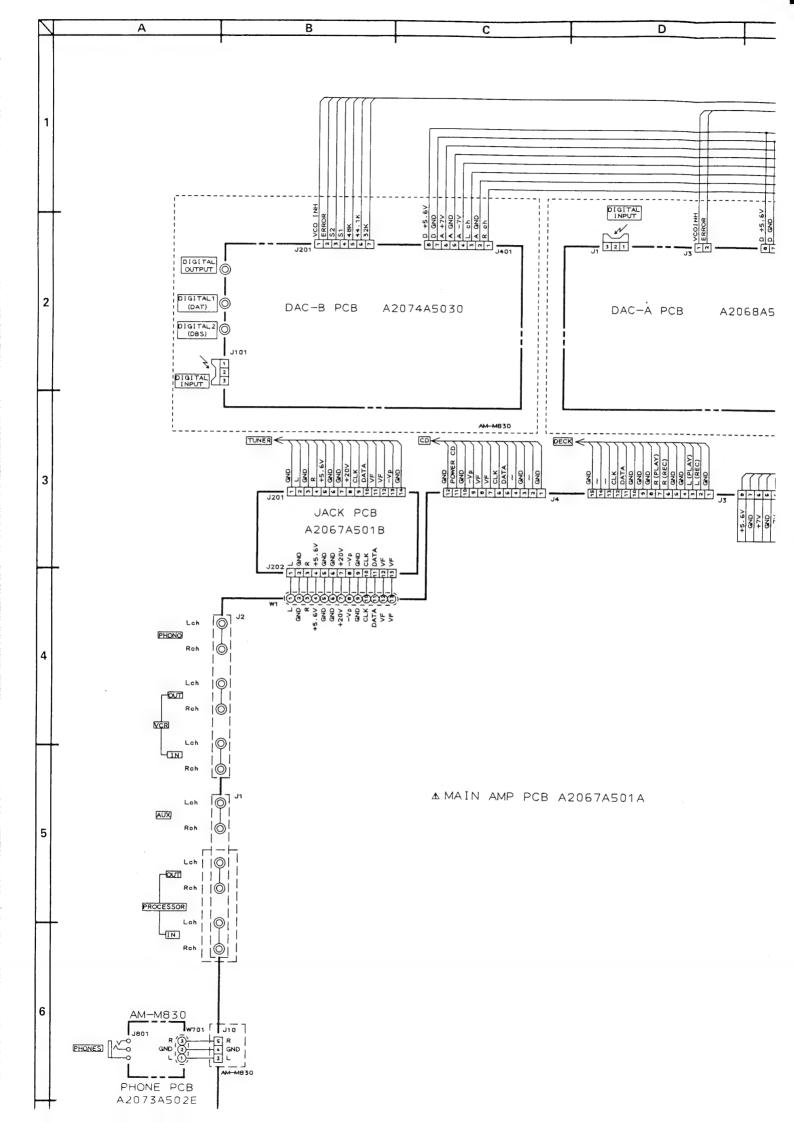
			The second secon
PIN NO	SYMBOL	1/0	DESCRIPTION
1	L OUT	0	L ch output
2	VH 1	1	Reference voltage "H" input 1
3	VH 2	I	Reference voltage "H" input 2 (Not used)
4	V.A	-	Analog +B (+5 V)
5	W CLK	1	Word clock input
6	LD IN	1	L ch digital audio data input (MSB first)
7	RD IN	- 1	R ch digital audio data input (MSB first)
8	BCK		Bit clock input
9	SCK		System clock input
10	V.D	-	Digital +B (+5V)
11	TOUT	0	Test output (normal:open)
12	TEST 1	1	Test input (normal:GND)
13	MODE 1	I	Interface select
14	MODE 2		Interface select
15	A.G	-	Analog GND
16	VL 1		Reference voltage "L" input 1 (Not used)
17	D.G	-	Digital GND
18	VL 2	ı	Reference voltage "L" input 2 (Not used)
19	N.C	-	No connection (Not used)
20	ROUT	0	R ch output

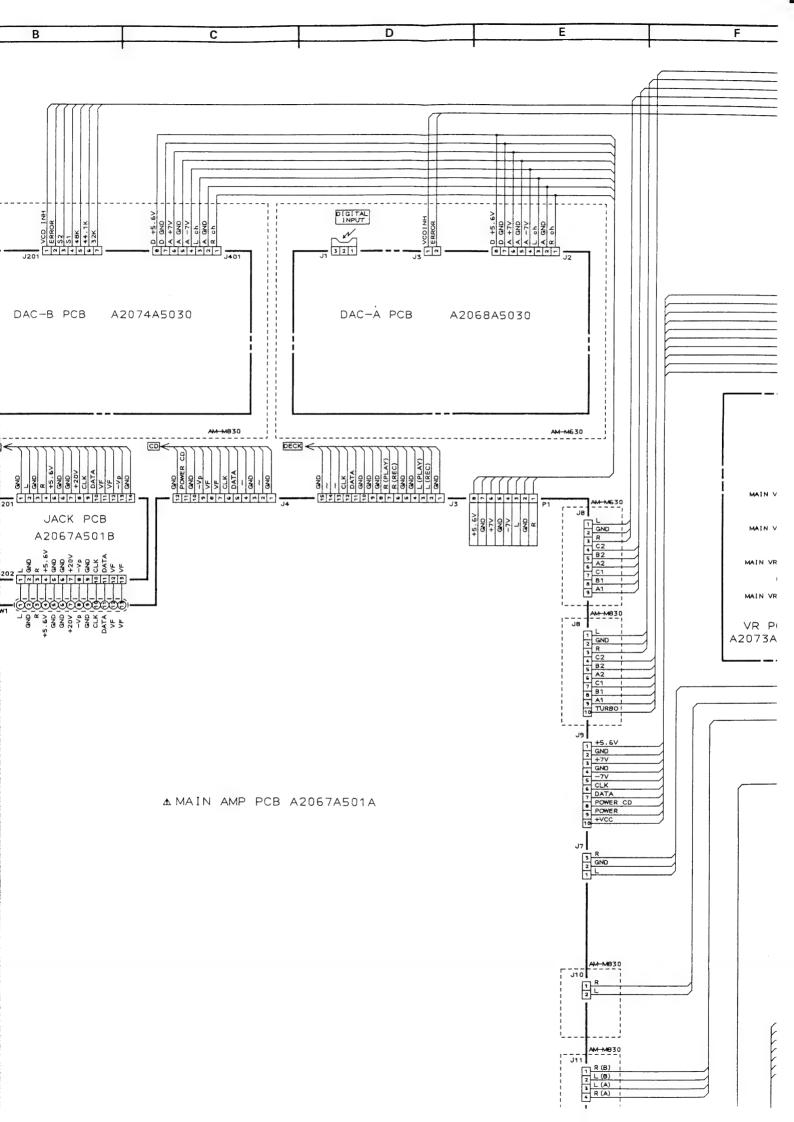
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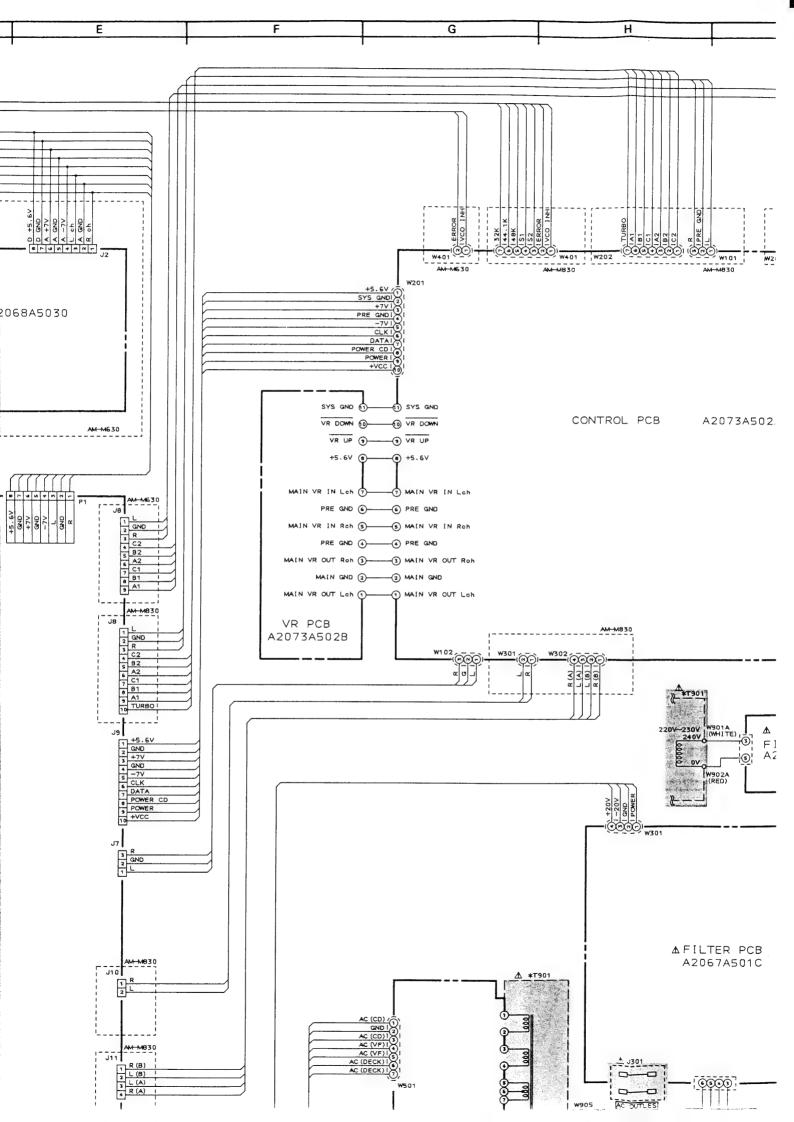
PIN NO	SYMBOL	1/0	DESCRIPTION
1	X IN	ı	X'tal osc input
2	X OUT	0	X'tal osc output (Not used)
3	CKSL		Clock select H: 16.9344MHz
			L : 8.4672MHz
4	СКО	0	Clock output (Not used)
5	LRCK	1	L, R clock input
6	DATA	1	serial data input (MSB first)
7	BCLK	١	Bit clock input for input data
8	Vss	-	GND
9	LCO	0	Clock output for 2 DAC type (Not used)
10	SHR	0	R ch sample hold pulse output
11	SHL	0	L ch sample hold pulse output
12	D OUT	0	Serial data output (MSB first)
13	W OUT	0	Word clock output (Not used)
14	LR DO	0	L,R select clock output
15	BOUT	0	Bit clock output for data output
16	VDD	-	+B (+5 V)

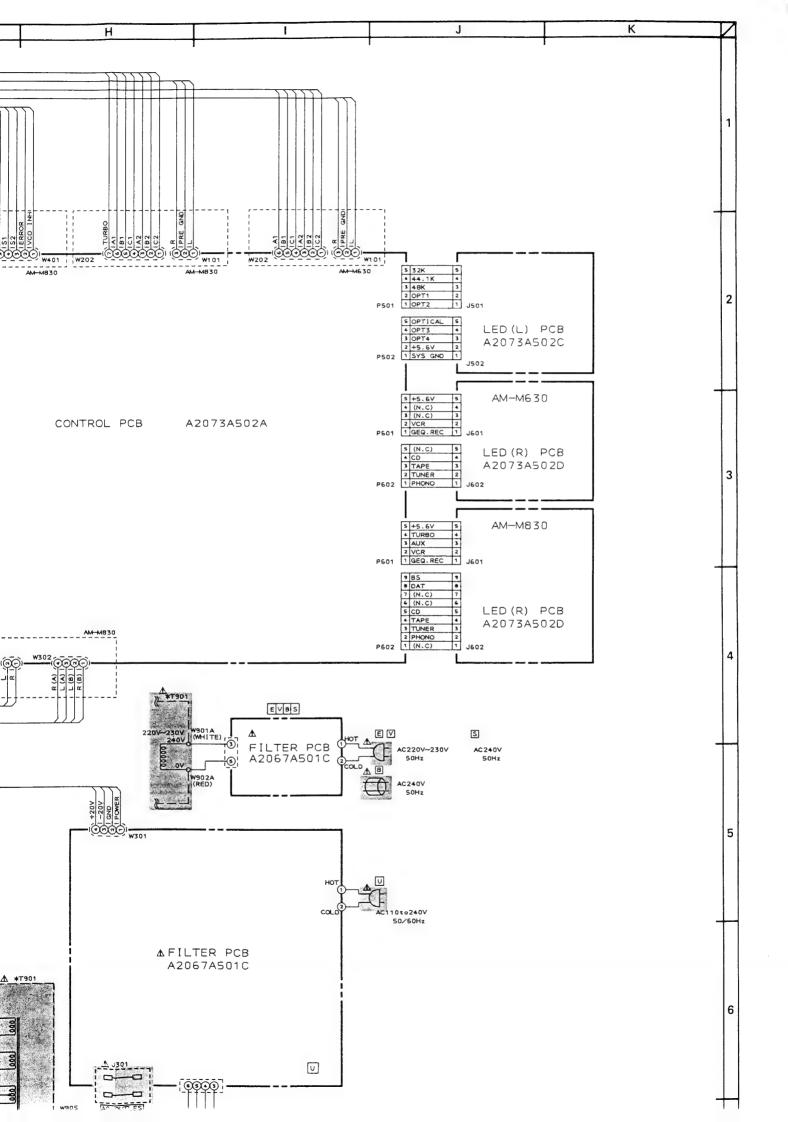
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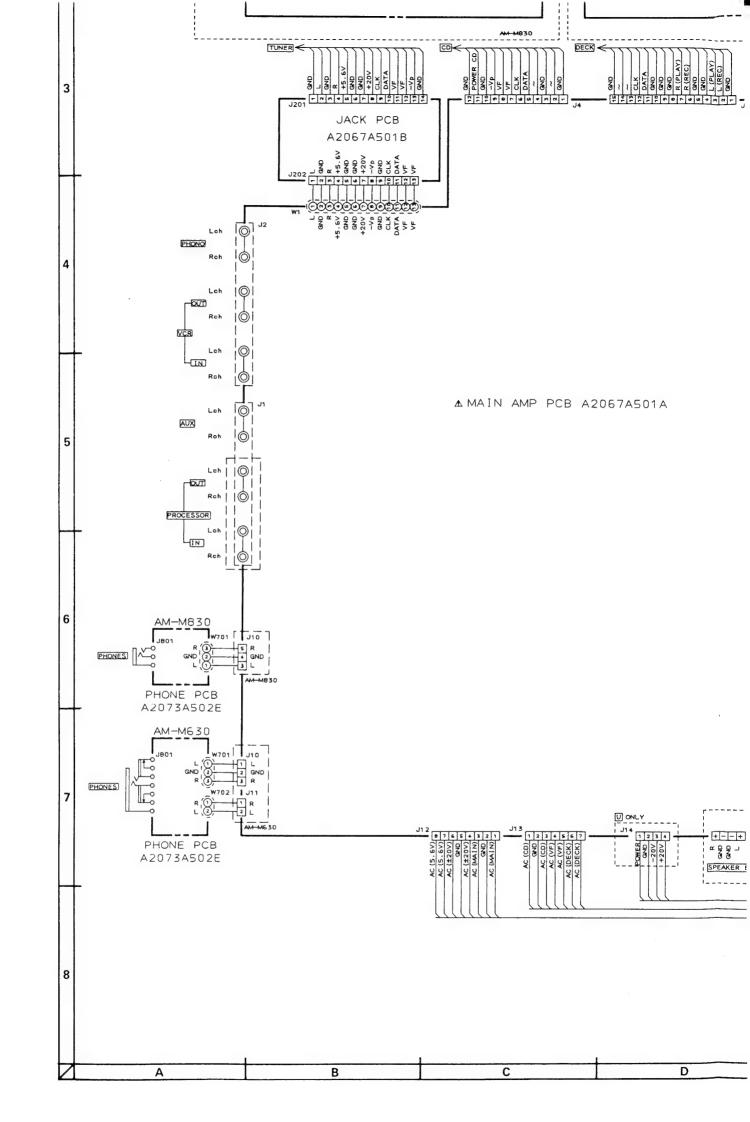
PIN NO	SYMBOL	1/0	DESCRIPTION
1	X IN	1	X'tal osc or external input
2	X OUT	0	X'tal osc output (Not used)
3	MODE 1	1	Master clock input and clock output select
4	CK OUT	0	External clock output (Not used)
5	LRCK	-	L, R clock input
6	DATA	I	Serial data input (MSB first)
7	BCLK	1	Bit clock input for input data
8	Vss	-	GND
9	MODE 2	1	H: 18bit data output
			L: 16bit data output
10	SHOUT	0	Sample hold pulse output (Not used)
11	LD OUT	0	L ch data output (MSB first)
12	RD OUT	0	R ch data output (MSB first)
13	MODE 3	1	H: 18 or 16 bit data output
			L : 20 bit data output
14	W OUT	0	Word clock output
15	BOUT	0	Bit clock output for L, R data output
16	VDD	-	+B (+5 V)

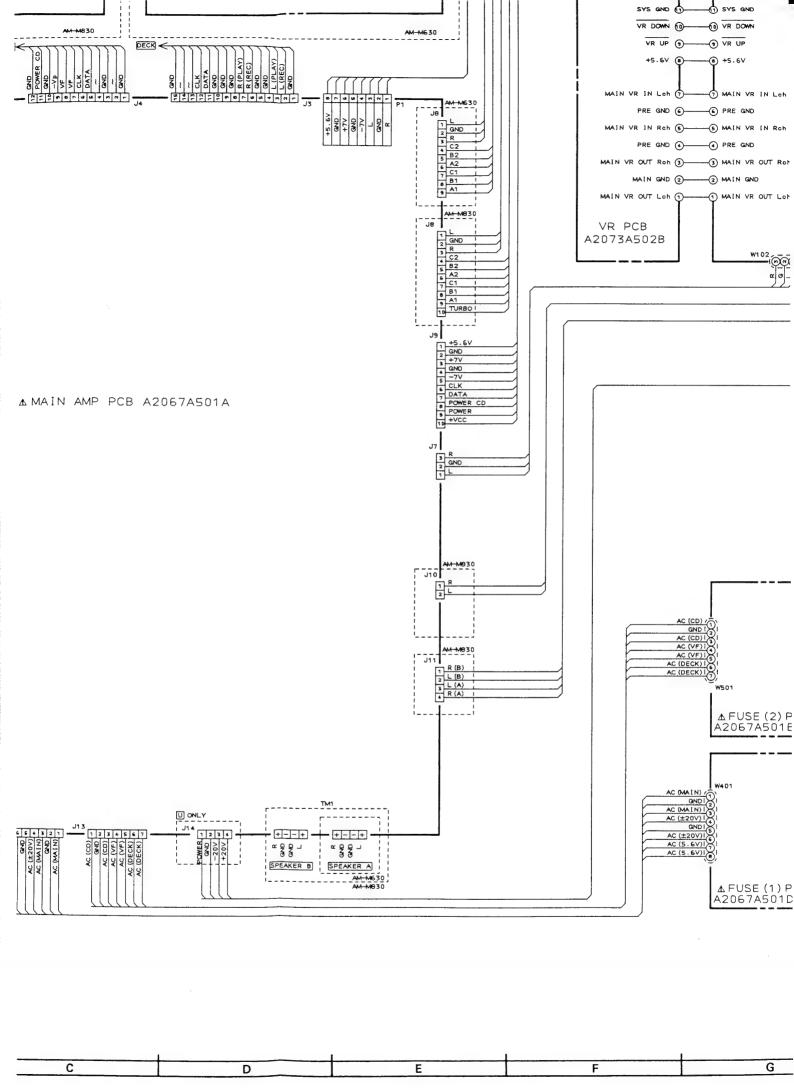


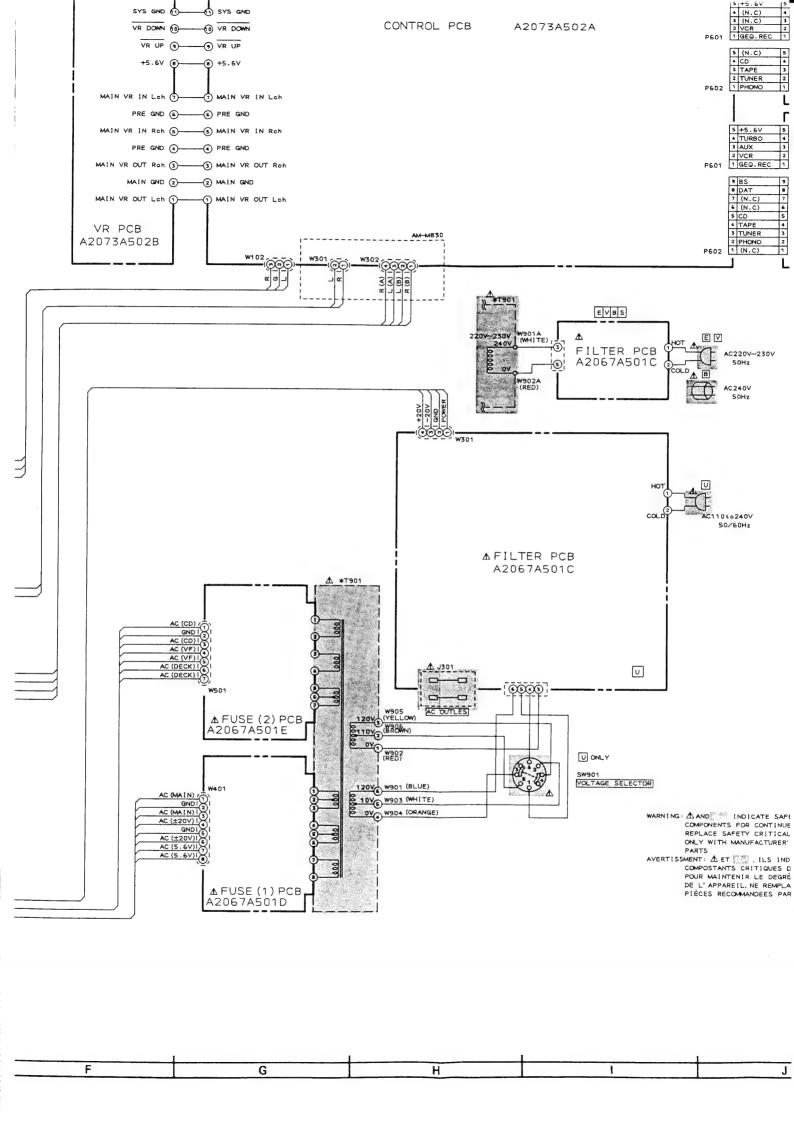


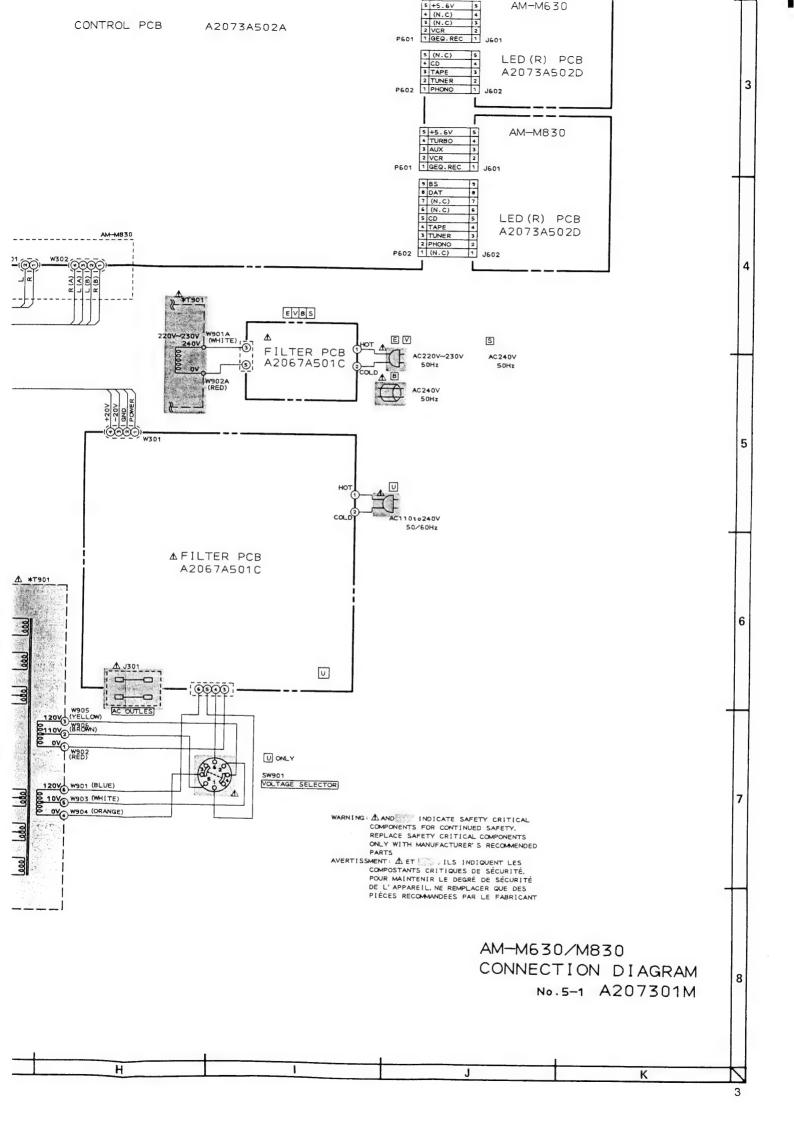


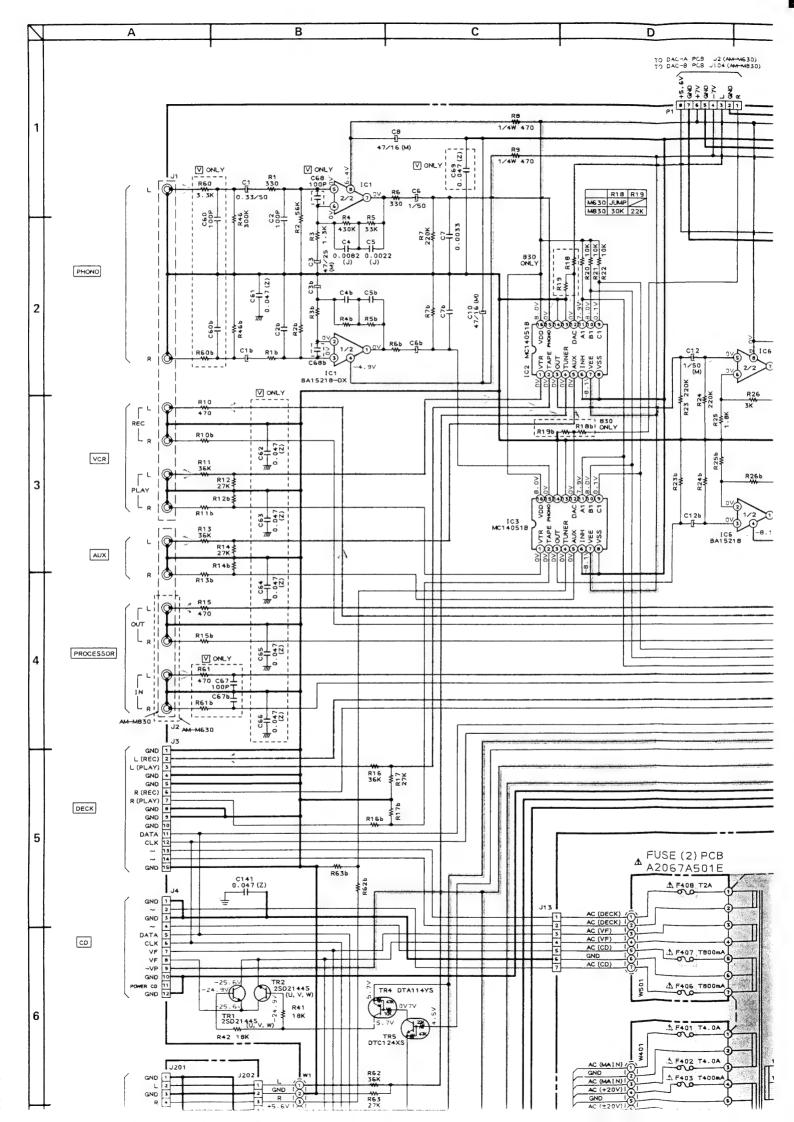


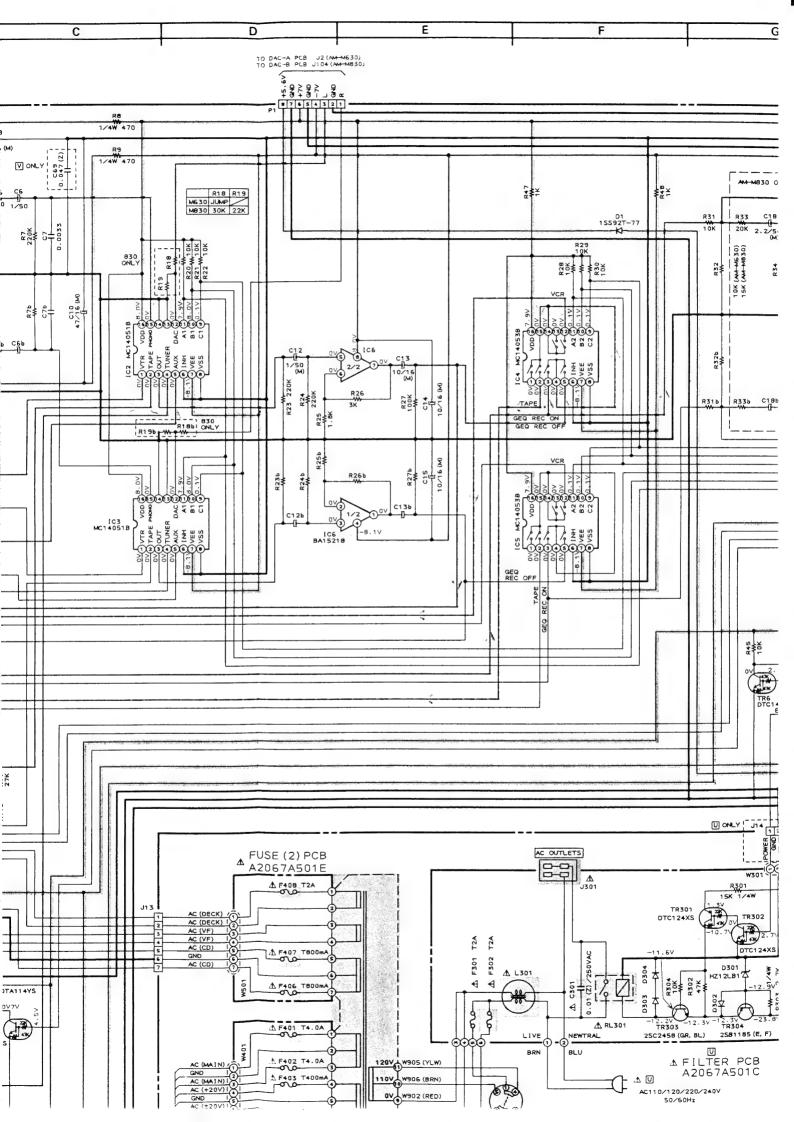


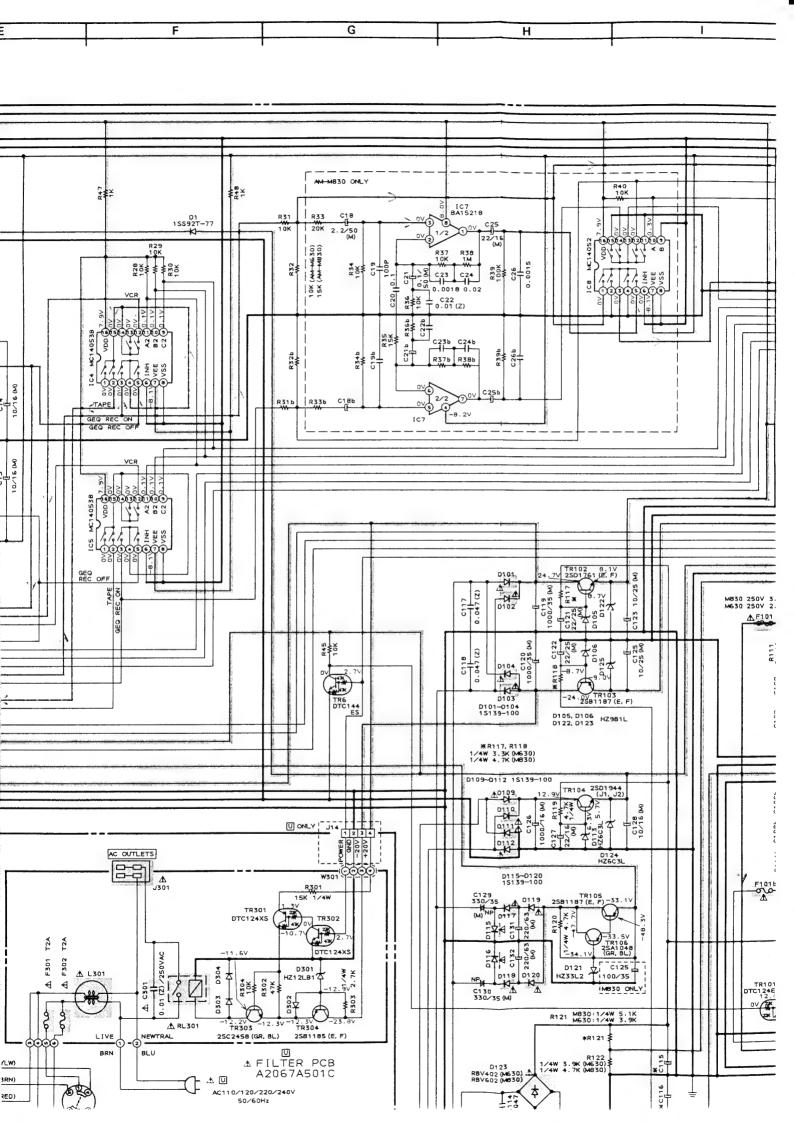


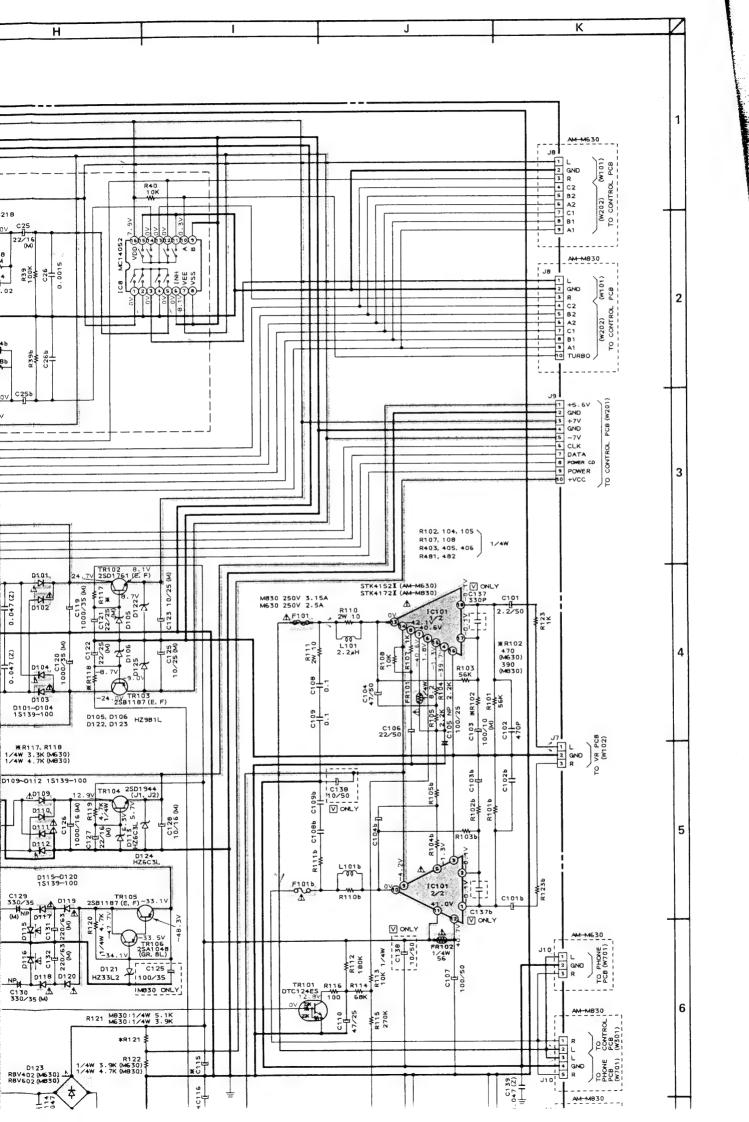


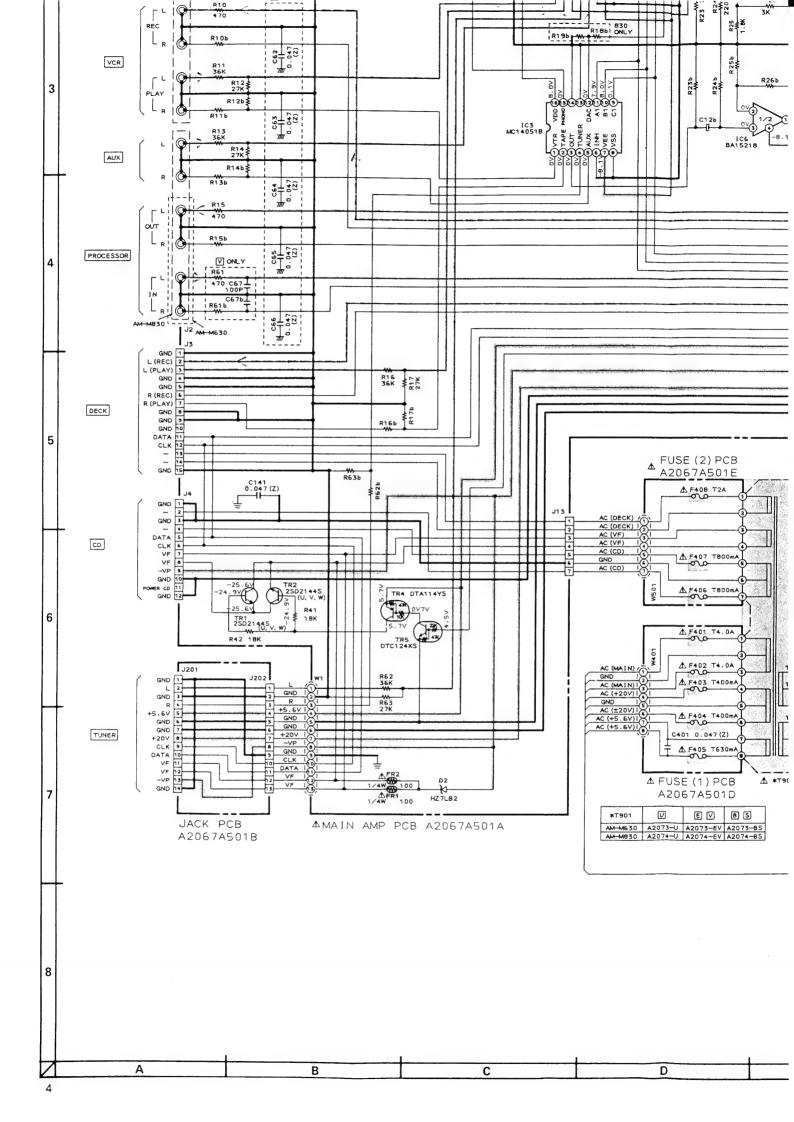


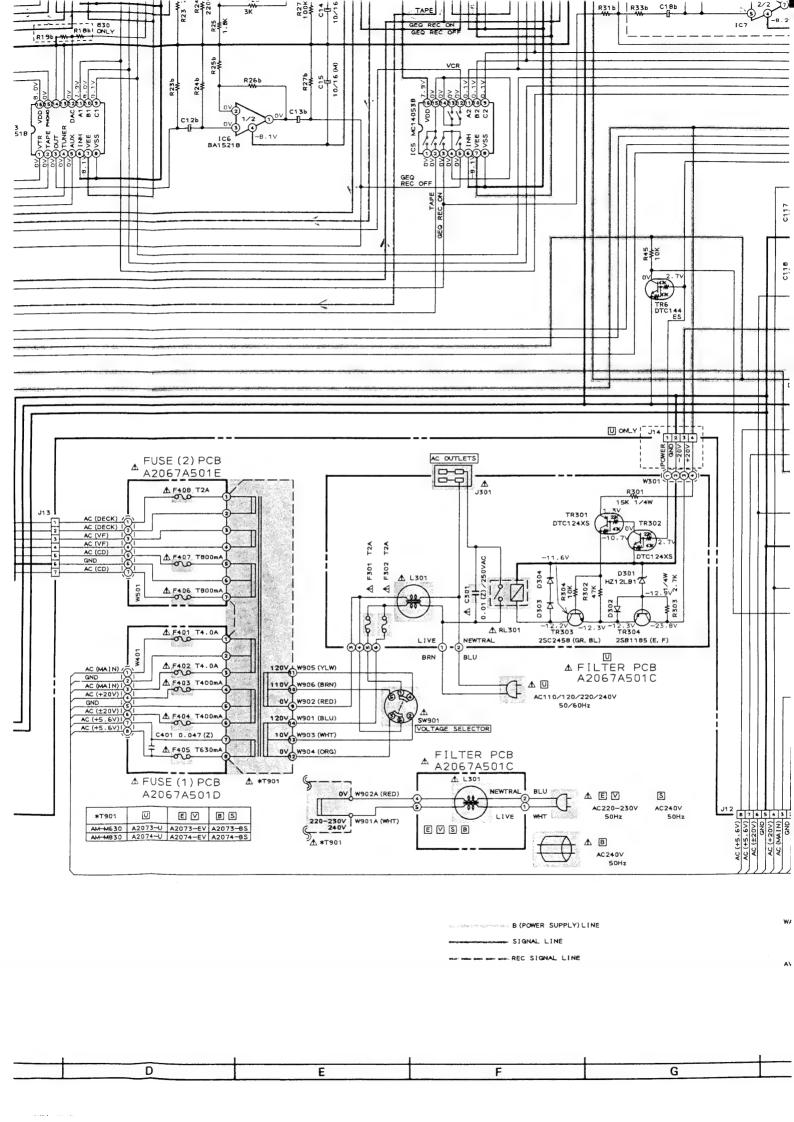


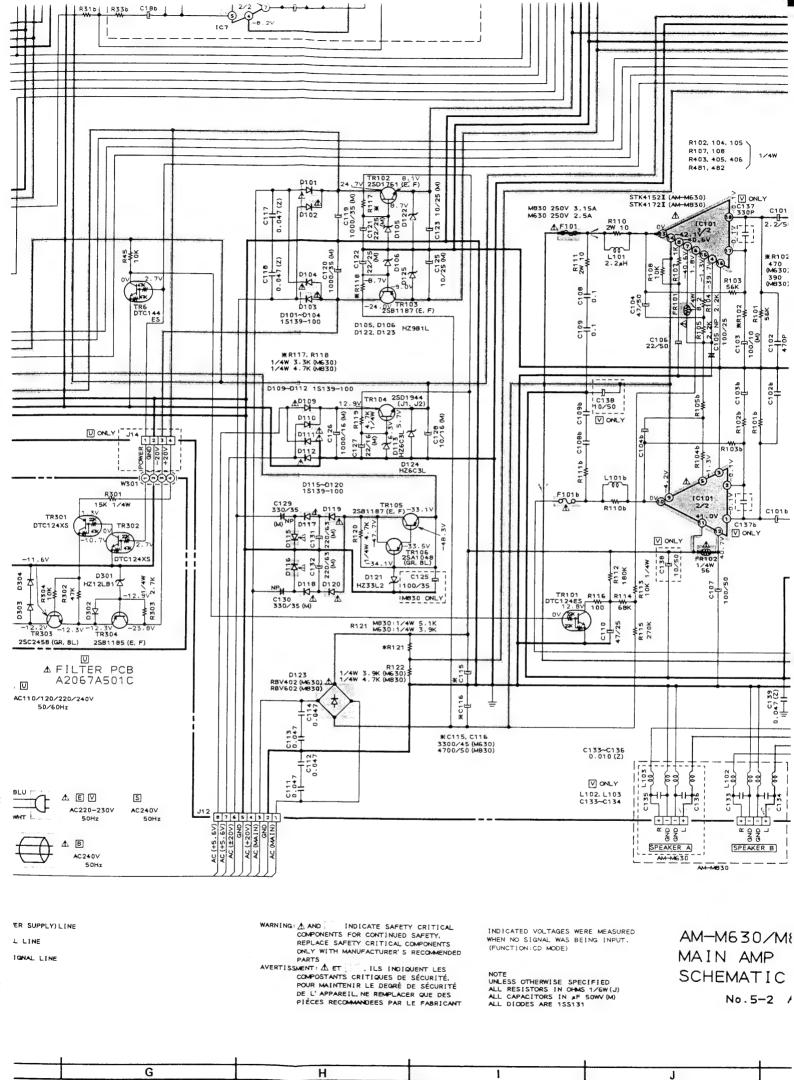


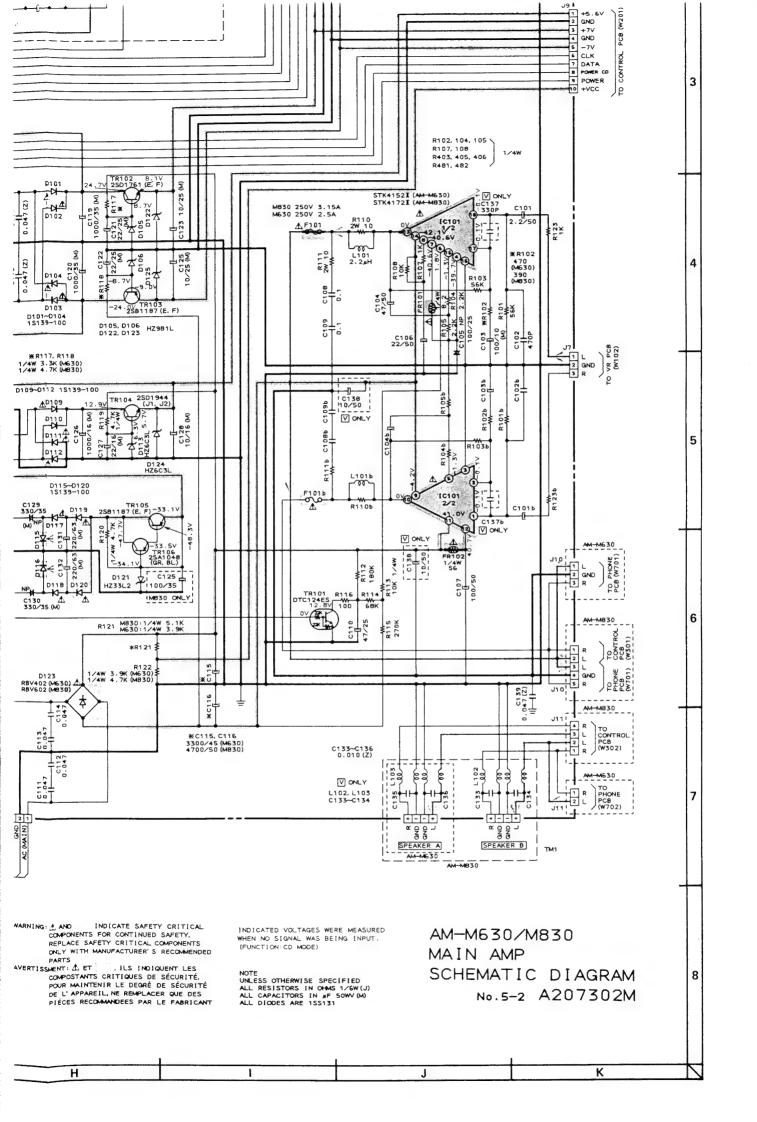


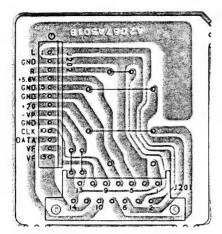




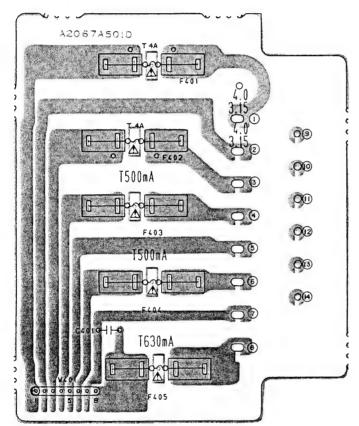




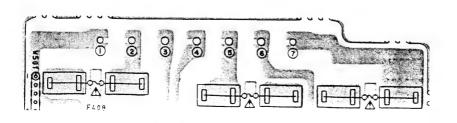




JACK PCB A2067A50IB

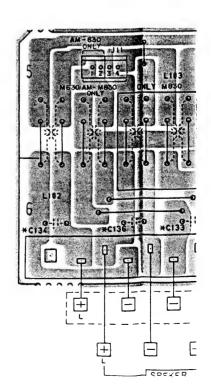


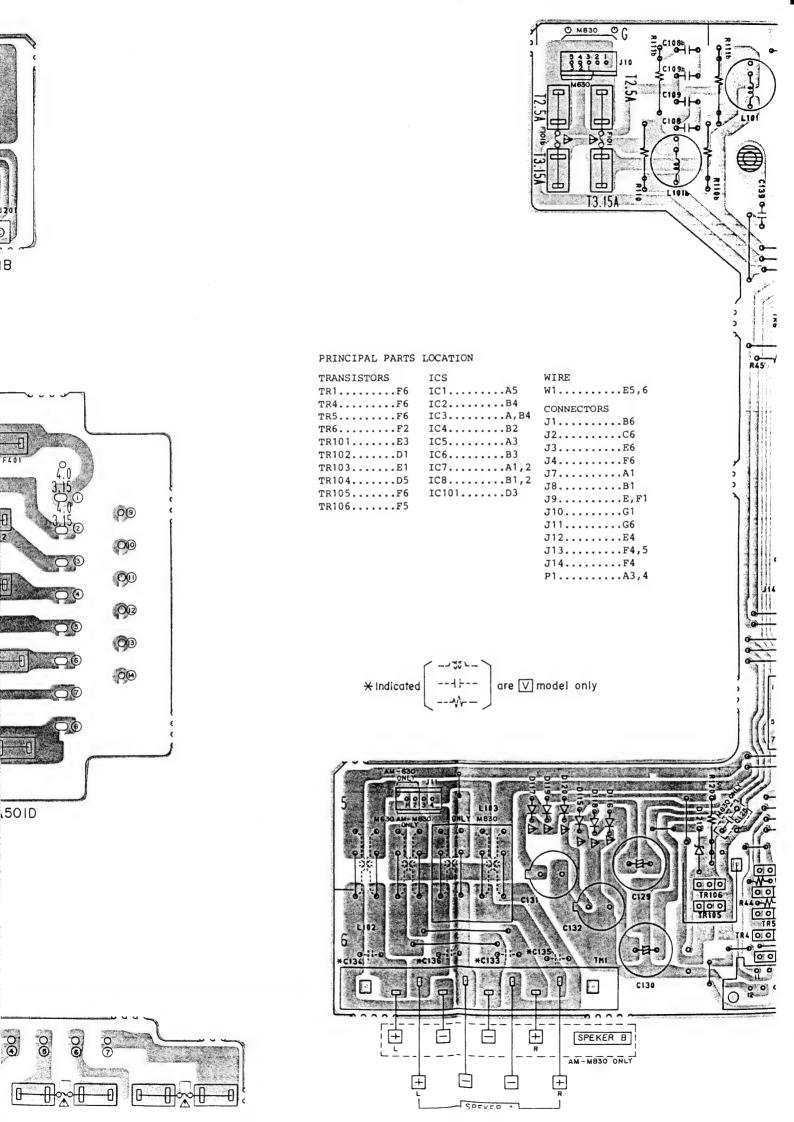
FUSE I PCB A2067A50ID

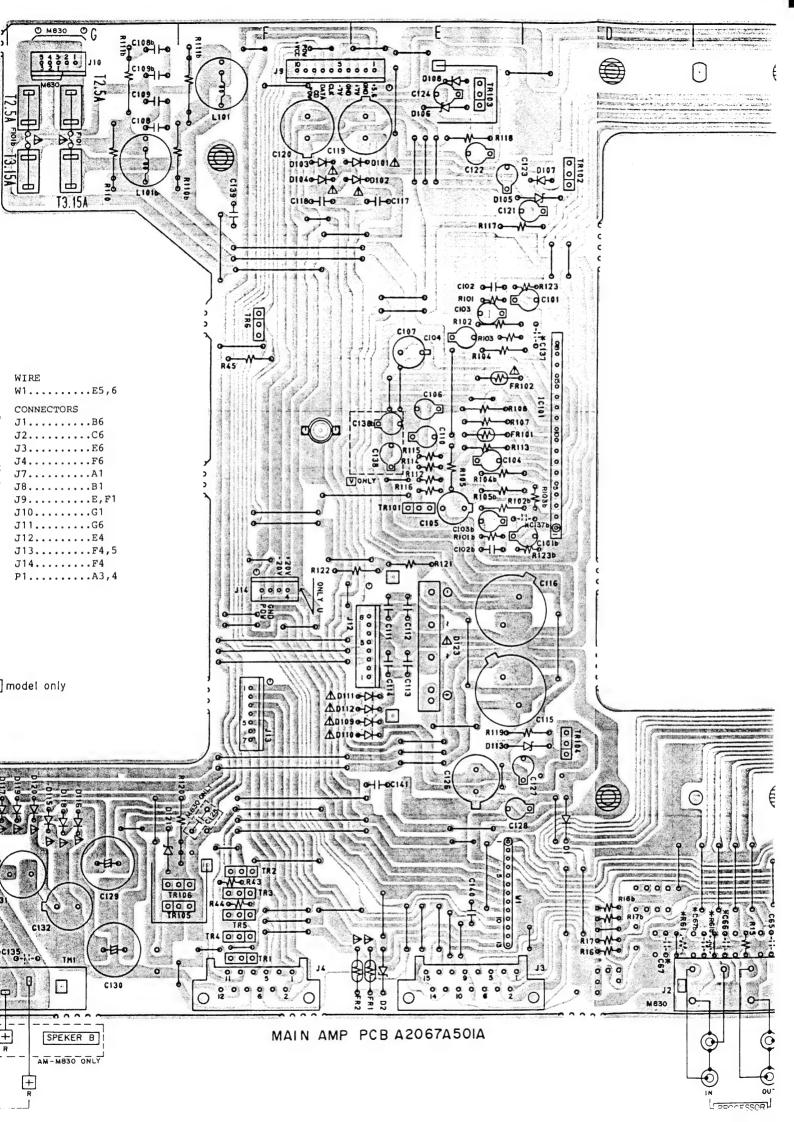


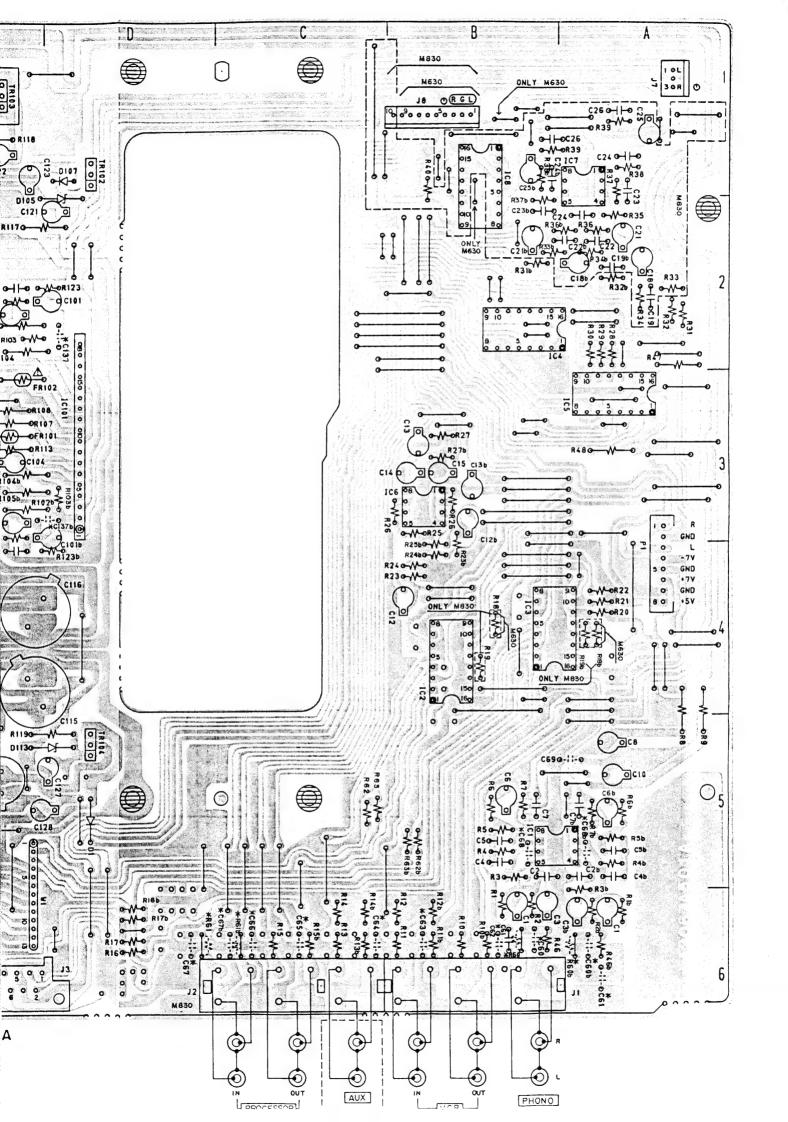
PRINCIPAL PARTS LOCATION

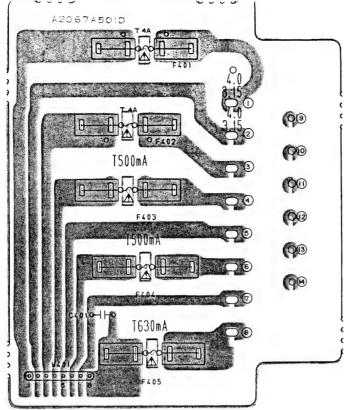
TRANSISTORS	ICS
TR1F6	IC1A
TR4F6	IC2B
TR5F6	IC3A
TR6F2	IC4B
TR101E3	IC5A
TR102D1	IC6B
TR103E1	IC7A
TR104D5	IC8B
TR105F6	IC101D
TR106F5	



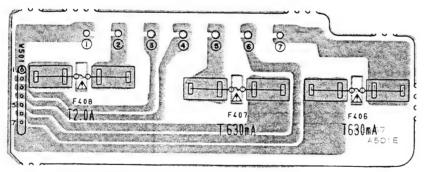








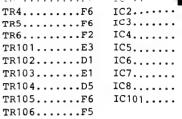
FUSE I PCB A2067A50ID

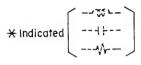


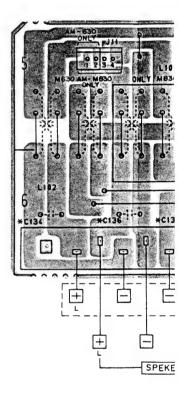
FUSE 2 PCB A2067A50IE

WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

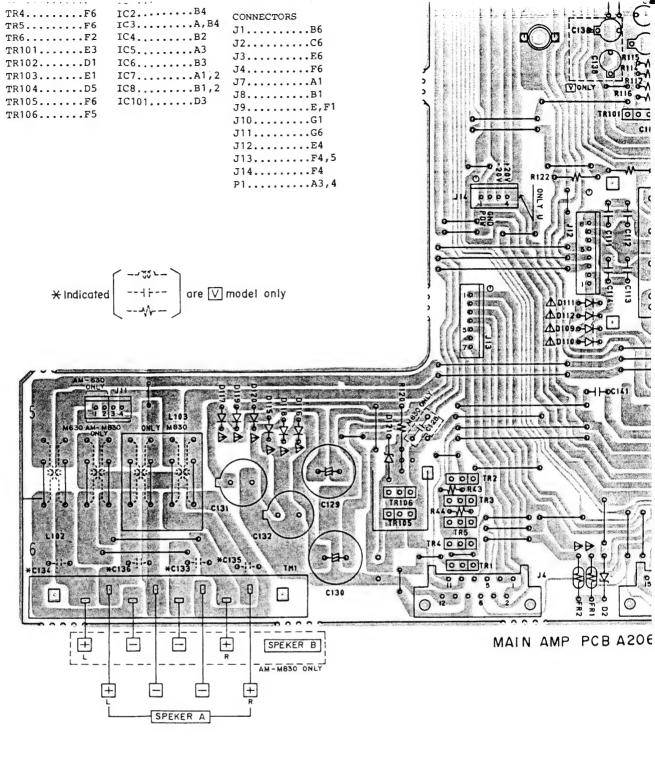
AVERTISSEMENT: ÂLI INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

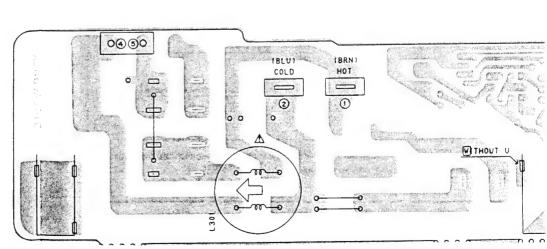




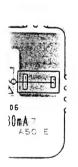






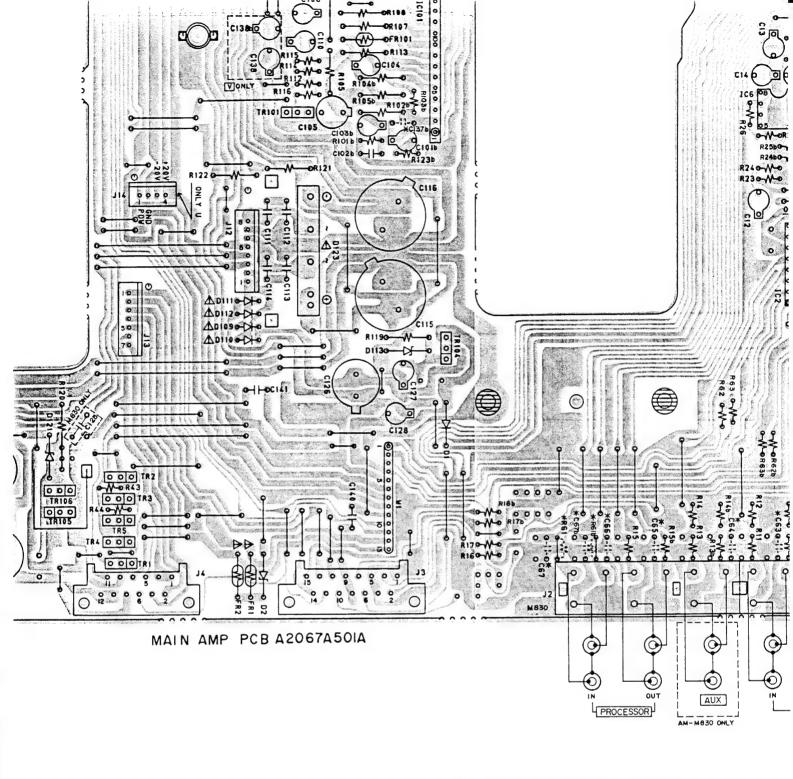


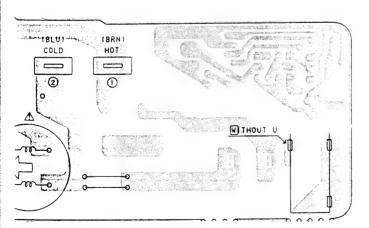
FILTER PCB A2067A50IC BEV model

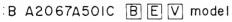


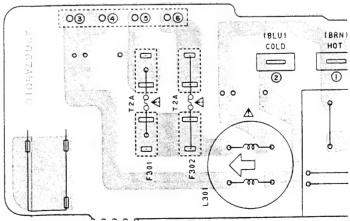
ETY, ER'S

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FILTER PCB A2067A50

